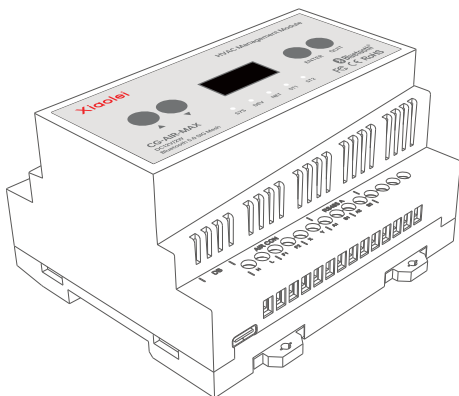


Xiaolei

CG-AIR-MAX

HVAC Management Module



Manual

www.xiaolei.com.cn

Product Introduction

HVAC management module adopts Bluetooth 5.0 SIG Mesh. Multiple AC units can be recognized and controlled by one HVAC management module. Easily turn traditional central air conditioners, fresh air devices and floor heating devices into smart ones in just a few simple steps. It allows remote operation, timing control and scene linkage while using the app. It can be linked up with other smart devices as well and the smart linkage makes central air conditioners, fresh air and floor heating be integrated into the smart system.

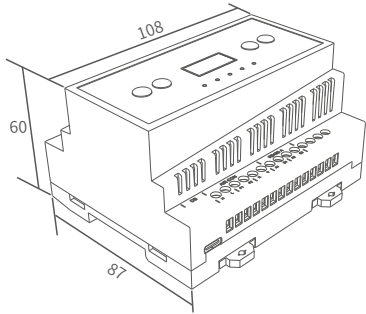
Note: Before purchasing the compatible fresh air/floor heating products, please communicate with the manufacturer and provide us with their corresponding communication protocols. After our confirmation and development in them, they can be used.

Technical Specs

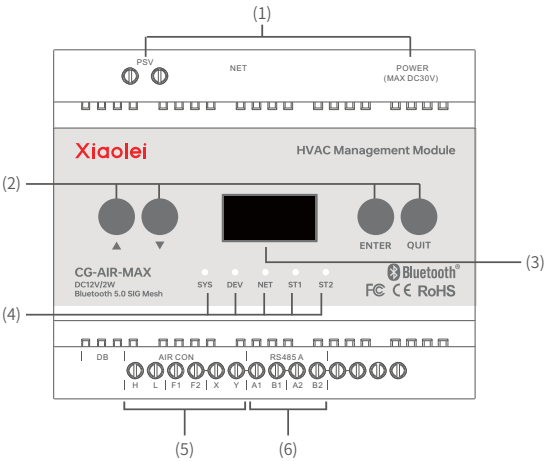
Product Name	HVAC Management Module
Product Model	CG-AIR-MAX
Wireless Type	Bluetooth 5.0 SIG Mesh
Input Voltage	DC 12V
Power Consumption	2W
Working Temperature	-20°C~55°C
Working Humidity	10~90% (no condensation)
AC Communication Line Voltage	AC 5V
Mounting rail	TS-35/7.5 or TS-35/15

Product Size

Unit: mm



Component Description



- 1) POWER interface: jack and power supply terminal. (Note: The power supply specification is DC12V. If an unmatched power supply is used, the product may be damaged.)
- 2) Button: Used to turn pages of the LCD screen display and make some settings, and different functions can be achieved through key combinations.
- 3) LCD screen: Displays whether communication is normal, the brand and quantity of air conditioners being controlled, the number of new air searched, and the equipment parameters of this product.
- 4) LED indicator light: working status indicator light, see the indicator light description for specific meaning.
- 5) AIRCON terminal: Connect with air conditioners of different brands through different interfaces according to different protocols.
- 6) RS485 A interface: interface for other systems such as new air and floor heating based on RS485 protocol.

Button Instructions

1. ▲ : Short press to turn the page up (Note: Long press this button to switch between Chinese and English)
2. ▼ : Short press to turn the page down。
3. ENTER: Confirm
4. QUIT: Press this button to return to the home page, and long press this button to access the network wirelessly.

Indicator Light Description

Name	Representative equipment	Light Status	Meaning
SYS	Gateway	Red light is always on	Unauthorized
		Green light is flashing slowly	Gateway normal
		Yellow light is always on	Gateway abnormal
		Green light is always on	Gateway initializing
DEV	Device	Green light is always off	Searching for air conditioner
		Green light is flashing	The gateway has found the air conditioner, new air, and panel devices. The green light flashes slowly during normal operation and flashes quickly when the device has data.
		Red light is always on	gateway does not find the air conditioner, fresh air, or panel device, and the air conditioner bus has a fault code or the bus has no data.
NET	Smart terminal	Red light is always on	Smart terminal module (ZigBee, WIFI, KNX) failure (no communication for a long time or module failure)
		Yellow light is always on	The smart module of the gateway (ZigBee, WIFI, KNX) falls off
		Green light is flashing	Configuring or connecting
		Green light is always on	Networking completed
		Off	Not connected or paired
ST1	Bluetooth	Off	Mobile Bluetooth is not connected
		Green light is always on	Mobile Bluetooth is connected
ST2	WIFI	Off	WIFI is not connected
		Green light is always on	WIFI is connected

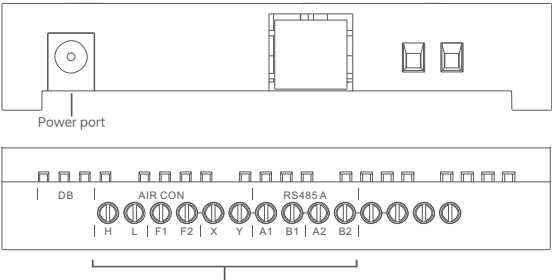
Product Installation

1. Installation Steps

1. Make sure air conditioning system is powered, and check whether all the indoor and outdoor AC units connected for centralized control are powered.
2. Make sure that the AC system commissioning has been successfully completed by the AC manufacturer, and no any alarm or abnormal situation occurs.
3. Confirm the addresses of the indoor and outdoor AC units and record the addresses. (For example, each indoor Daikin AC unit needs to be numbered. Give them a number starting from 00 and do not repeat continuously, such as 1-00, 1-01, 1-02, 1-03, 1-04).
4. Power off all the devices in the AC system.
5. Connect to the air conditioning communication line, and according to the description above attach to the corresponding port (Refer to Page 4 in this manual for more details).
6. Confirm the ports you select for the central air conditioning module and make sure they matches the communication parameters.
7. Power on the system devices and wait a while until the system is ready to be used.

The RS485 port is for fresh air/floor heating wiring. On how to wire fresh air/floor heating devices, please refer to the manufacturer's manuals.

Hardware ports are shown as below:



Brands	Gateway side wiring port	Air conditioner side wiring port	Wiring interface polarity	Is it necessary to connect outdoor AC unit?
Daikin-Multi outdoor AC units	F1、F2	F1、F2 (Out-Out)	No	Yes
Daikin-Single outdoor AC units	F1、F2	F1、F2 (In-Out)	No	No
Mitsubishi Electric-Multi outdoor AC units	F1、F2	M1、M2 (TB7)	No	Yes
Mitsubishi Electric-Single outdoor AC units	F1、F2	M1、M2 (TB3)	No	No
Lingyao	F1、F2	M1、M2 (Outdoor Ac Unit) M1、M2 (Splitter Box)	No	No(Connectable to Splitter Box)
HITACHI	F1、F2	1、2	No	No
TOSHIBA	F1、F2	U1、U2	No	No
Panasonic	F1、F2	U1、U2	No	No
Hisense	F1、F2	1、2	No	No
Haier	F1、F2	P、Q	No	No
YORK-Qingdao	F1、F2	1、2	No	No
GREE	H、L	G1、G2	Have(H-G1,L-G2)	Yes
	H、L	D1、D2	Have(H-D1,L-D2)	No
TCL	H、L	F1、F2	Have(H-F1,L-F2)	No
Mitsubishi Heavy Industries	X、Y	A1、B1	No	No
	X、Y	A2、B2	No	No
Midea/ Bosch/ Carrier	X、Y	X、Y	Have(X-X,Y-Y)	Yes
	X、Y	P、Q	Have(X-P,Y-Q)	No
Coolfree	X、Y	A、B(Outdoor AC unit)	Have(X-A,Y-B)	Yes
AUX	X、Y	A、B	Have(X-A,Y-B)	No
Samsung	X、Y	F1、F2	No	No

Brands	Gateway side wiring port	Air conditioner side wiring port	Wiring interface polarity	Is it necessary to connect outdoor AC unit?
LG	X、Y	A、B(CEN)	Have(X-A,Y-B)	No
McQuay	X、Y	Apc,Bpc	Have(X-Apc,Y-Bpc)	Yes
TICA	X、Y	A3、B3	Have(X-A3,Y-B3)	No
Chigo	X、Y	P、Q	Have(X-P,Y-Q)	No
Trang	X、Y	A、B	Have(X-A,Y-B)	Yes
York household water machine	X、Y	A、B	Have(X-A,Y-B)	Yes
	X、Y	A1、A2	Have(X-A2,Y-B2)	Yes
McQuay household water machine	X、Y	Apc、Bpc	Have(X-Apc,Y-Bpc)	Yes
Carrier household water machine	X、Y	A、B	Have(X-A,Y-B)	Yes
Trang household water machine	X、Y	CN29(A、B)	Have(X-A,Y-B)	Yes

For the specific air conditioner brand and model list, please see attachment P18 of the manual.

- 1: If the port polarity is marked as "None", the connection between the gateway connection port and the air conditioner connection port can be arbitrary; if the port polarity is displayed as "Yes", the connection between the gateway connection port and the air conditioner connection port must be made according to the order marked below the gateway port in the manual and the order of the ports below the air conditioner port.
For example: Brand: Midea, if the polarity of the gateway connection port is marked "yes", you need to connect the air conditioner's X connection port to the gateway's X connection port, and the air conditioner's Y connection port to the gateway's Y connection port.
- 2: When using Mitsubishi Electric's multi-outdoor unit system, connect the centralized control line to TB7 "M1, M2", and plug the jumper cap of the centralized control switch CN41 on the outdoor unit PCB board into CN40.

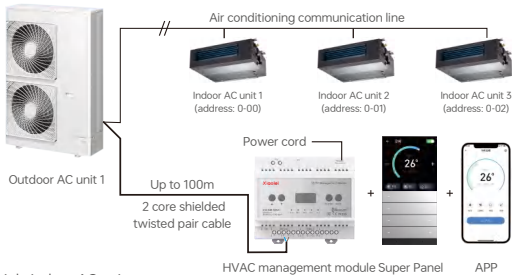
2. Wire Connections and Attentions

Construction personnel will take charge of the communication line between the indoor AC unit and outdoor AC units. Like the refrigerant copper pipe between the indoor and outdoor AC units, it is part of the air conditioning system, which is not the scope that the weak current integration side is responsible for.

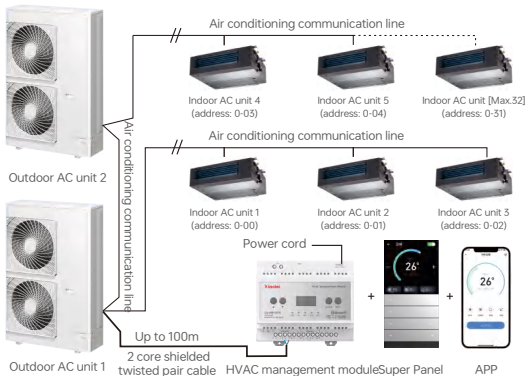
Note: One module only supports one single outdoor AC unit from the domestic AC brands like Midea, Mitsubishi Heavy Industries and Gree.

Bluetooth connection diagram (taking a Daikin air conditioning for example)

Single outdoor AC unit

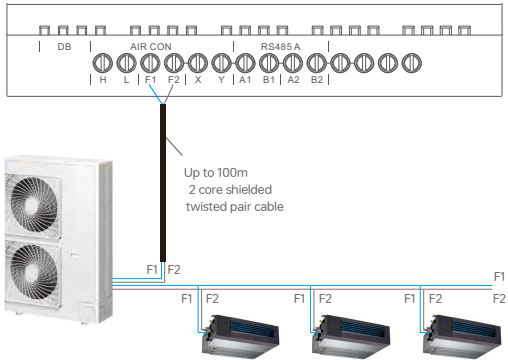


Multiple indoor AC units



This module is connected to the outdoor AC units of the AC system through 2 core shielded twisted pair cable, so it can communicate with all indoor AC units in the AC system to monitor them. The shielded twisted pair cable from the outdoor AC unit to this module requires a wire diameter of 0.75mm² or much longer, and the overall length is no more than 100m, which can be reserved by the air conditioning construction personnel or added later. The communication between this module and the weak current integrated system is also realized by twisted pair cable or network cable. The parameter requirements and construction details of the communication line should be determined by the position between the module and the weak current integrated system. (This module needs to be installed indoors. You can install it in the smart home control box or ceiling maintenance access door).

The wiring terminals on the module and air conditioning (taking a Daikin air conditioning for example) are shown as below:



Matters Needing Attention for Operation of Wiring Connection:

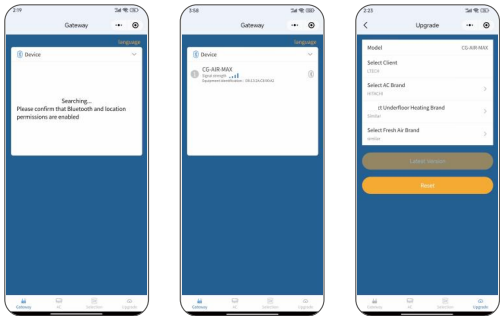
- ① Input terminal and connection terminal for different control modes are different.
- ② Please use the power supply that comes with the module or use DC 12V power supplies produced by regular manufacturers.
- ③ Please power off this module and air conditioning before you do the wiring.
- ④ Please do not run all the signal cables side by side with the power line and with other signal lines, which may cause malfunctions due to interference. If you do, please keep the communication wiring distance is about 15cm between them and air conditioning, and keep the other wiring distance is 30 cm above. Or connect cables to the iron protective tube and ground one end of the protective tube. And the case must be the D type grounding.
- ⑤ If you mistakenly connect the power cord to the signal port, the fuse will blow out to protect the printed circuit board. In this case, please contact the manufacturer timely. It is strictly forbidden to disassemble it without permission.

3. Brand selection for air conditioning/fresh air device/floor heating device

- ① Connect the HVAC management module to a power source, then the screen will display the QR code for switching brand and upgrading on the mini program. Use WeChat to scan the QR code to enter the mini program.

Note: The QR code only lasts for 5 seconds after the device is powered on. If the page jumps, please power off the device and then power it on again.

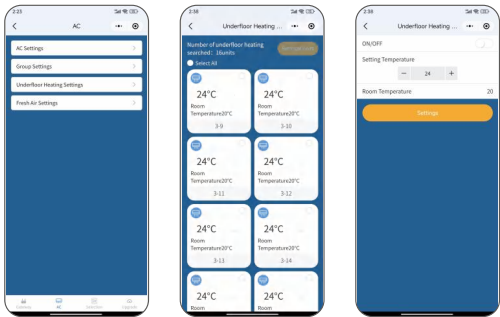
2. Make sure the Bluetooth on your phone is turned on, click "Not connected device" and wait for the search to complete, then find and connect the device starting with "CG-AIR-MAX"; Switch to the [Upgrade] page, select the corresponding air conditioning/new air/floor heating brand according to the actual application (the rest are default options), and click "Download the latest firmware". After the firmware download is complete, a pop-up window will pop up saying "Upgrade successful, gateway restart". Wait for the gateway to restart and the upgrade is successful. Refresh the mobile app page.



3. On the gateway page, you can view air conditioner parameter information, set the 485 address of this gateway, and perform gateway restart.



4. On the air conditioning page, you can set the ON/OFF, temperature, speed, etc. of the HVAC equipment for testing. The following figure takes underfloor heating as an example.(Note: Click on the settings below for the settings to take effect).



5. When the device is running abnormally, the LCD panel will display the device fault code and a four-digit code instead of the running code. You need to provide the code to the manufacturer for processing. When the device fault is resolved, the device will display the device running.

Software: 2.4 Hardware: 2.5

D8:13:2A:C8:90:A2

Air conditioner fault: None

Note: For air conditioners of brands such as Daikin and Toshiba that require manual coding of the wired remote control, you must first complete the coding operation on the wired remote control before you can search for it.

APP operating instructions

Before you configure the AC module to the network, please make sure the air conditioning/fresh air device/floor heating device run normally and the module is well connected to the air conditioning/fresh air device/floor heating device. If the AC module has not been configured to the network yet, the screen will display "Network unavailable".

Before purchasing the corresponding fresh air device/floor heating device, please communicate with its manufacturer and provide the corresponding communication protocol to us for confirmation and development before use.

1. Register a L-Home account and log in

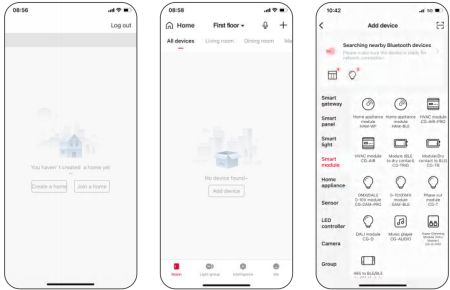
Scan the QR code below with you mobile phone and follow the prompts to complete the app installation, then you can register or log in.



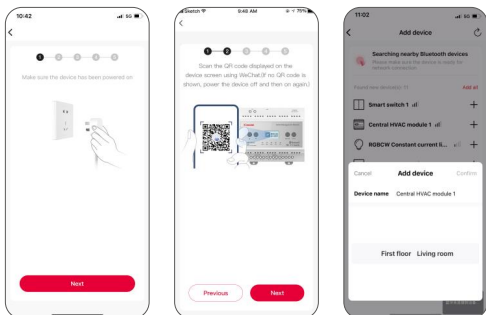
2. Configure the module to the network

2.1 "QUIT" button on the module for more than 5 seconds to trigger the connection to the network. If the screen displays "Not yet online", it indicates that the network has been successfully logged out. At this time, it can be searched by the mobile phone's Bluetooth.

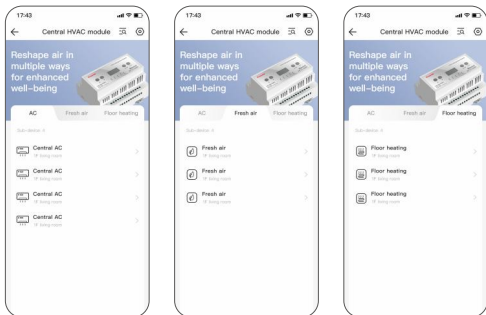
2.2 Create a home if you are a new L-Home app user. In the "Room" interface, click 【 + 】 icon in the upper right corner and pick "HVAC management module CG-AIR-MAX" from the device page.



2.3 Follow the interface prompts to search the module. When it is found, click **【 + 】** button to add it. Then set the name and the room it belongs to, and save it , which means the network has been configured successfully.



2.4 In “Room” interface, click “Search”icon or **【Search sub device】** to automatically search central air conditioning/fresh air device/floor heating device. When searching is done, you can control them with the mobile app and start to enjoy smart life.



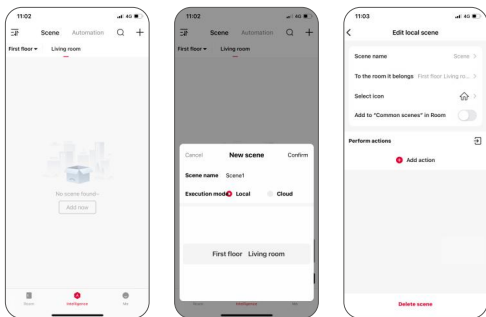
3. Control interface settings

Click the **【...】** button on the upper right corner of the added air conditioner/new air/floor heating to enter the device control interface, where you can adjust the temperature and speed, turn on/off the device. Click the **【🔊】** icon on the upper right corner to change the device name and the room it belongs to.



4. Local scene

Switch to the "Intelligence" interface, click **【+】** icon in the upper right corner to create a local scene. Set the execution action to link it with the HVAC management module and save the scene. When clicking the set scene in the **【Intelligence】** interface, it can be executed successfully to achieve local linkage with central air conditioning/fresh air device /floor heating device.

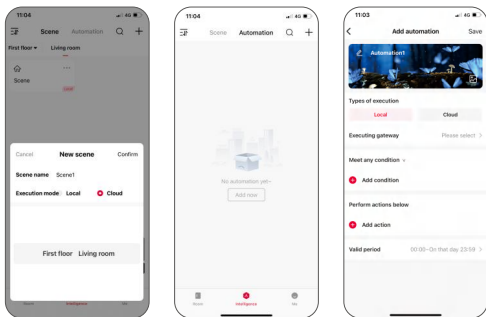


5. Cloud scene and automation

Make sure a smart gateway has been added to your home, such as Super Panel 6S.

Cloud scene:

Switch to the "Intelligence" interface and click **[+]** to create a cloud scene. After setting the execution action, remote linkage can be achieved.



Automation:

Select 【 Automation 】 in the "Intelligence" interface and click 【 + 】 to create automation. Local/cloud execution mode is optional. Set trigger conditions and execution actions. When the set trigger conditions are met, a series of device actions can be automatically triggered to achieve remote linkage.

Remove the module from the network

Method 1: In "Room" interface on APP, click the added module to access the device control interface. Click "⊗" icon in the upper right corner and click "Delete" in the setting interface.

Method 2: Long press "▲" button on the module for 5s until the device beeps, which means it has been removed from the network.

Firmware upgrade

1. In order to ensure the practicality, convenience and changeability of the module, you need to access the Bluetooth mini program on WeChat and click upgrade to carry out firmware upgrade related operations[For details, please refer to Page 7 of this manual].
2. To add or optimize module functions, you need to click the 【 Firmware upgrade】 button in the "Me" interface of the mobile APP. Select the module and click 【 Upgrade now 】 , and wait for the upgrade to be completed.

Attentions

- Product installation and commissioning should be done by a qualified professional.
 - Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
 - Please check whether the working voltage used complies with the parameter requirements of the product.
 - Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
 - If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 2 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
 - Any artificial damage caused by high voltage, overload, or improper operations.
 - Products with severe physical damage.
 - Damage caused by natural disasters and force majeure.
 - Warranty labels and barcodes have been damaged.
 - No any contract signed by LTECH.
1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Supported air conditioning brand and model list

Daikin :

Series	Model	Attentions
VRV X7	RXYQ**BA; RUXYQ**BA; RUXY**BAN	Wiring descriptions: 1.Connect a single refrigeration system: the module side is connected to the "F1F2" port, and the air conditioning side is connected to the indoor unit "F1\F2" wiring port, or to the inside/outside "F1\F2" wiring port of the outdoor unit (non-polarized). 2.Connect multiple refrigeration systems: the module side is connected to the "F1F2" port, and the air conditioner side is connected to the "F1\F2" port of the outdoor unit. When connecting the outdoor unit to the outdoor unit, it is also necessary to connect the "F1\F2" port of "outside\outside" (non-polarized).
VRV Q series (Updated)	RHXYQ**QY1 (QAY1) ; RWXYQ**AAV	
VRV water source heat pump series	RHXYQ**QY2; RXWYQ**AAV; RXWXYQ**AY1C; XWEYQ**AY1C	
VRV secondary compression series	RHSYQ**PY1; RHSQ**PY1; RHSQ**PY1+BHSQ20PY1	
SKyAir Multi series	RSQ**BAV(ABY, BBY, BAY, CAY)	
	RDQ**BAV(ABV, ADV, ABY, BBY)	
VRV U series (Residential use)	RBZQ**AAV(AAY);	
VRV P series (Residential use)	RYZQ**AAV (P) ; RPZQ**AAV(AAY, BAY, BAV, ABY); RPQ**ABY; RJLQ**AAV	
VRV S series (Residential use)	RYZQ**AAV; RJZQ**AAV(AAY, BAV, ABY, BAY, AAVY); RMXS**EY1C; RJQ**ABV	
VRV B series (Residential use)	RJFQ**AAV; RJCQ**AAV	
VRV N series (Residential use)	RQZQ**AAVN (AAYN, ABYN, BAYN, BAVN) ; RYZQ**AAVN; RQP**BV2C; RQQ**ABYN; RJLQ**AAV; RQCZQ**BAYN(ABYN);	
Super VRV-II	RUXYQ(XXX)P	
Daikin free heating and cooling	RHXYQ**RSY1; RUCXYQ**K; RHCXYQ**AA; RHCXYQ**AAE; RHCXYQ**AAH; RHCXYQ**AAN; RUCXYQ**AA; RBCZQ**BAY	
VRV III series	RHXYQ**SY1; RHXYQ**PY1; RCXYQ**PAY1(E/H); RHXYQ**PAY1(E/H)	
VRV D series	RHXYQ**BA; RHXYQ**AB	
VRVX series	RUXYQ**AB (BA) (N); RUCXYQ**BA	
VRVA series	RHXYQ**BAE (ABE)	
VRV C series	RHXYQ**ABN (BAN)	
VRV series	RHXYQ**BAH (ABH)	
VRV CMS	RZP**SY1 (P) ; RHXY**SY1; RZP250MAY1; RZP**PAY1	
Household VRV-PRO	RHX**SY1P	
H series	RTSXYQ**BA	
VRV P series (Residential use)	RYCZQ**AAVP(AAVN); RPCZQ**AAV(BAV, AAY, BAY, ABY); RYCQZQ**AAVN;	
VRV U series (Residential use)	RBCZQ**AAV(AAY)	

VRV N series (Residential use)	RYCZQ**AAVN; RQCZQ**AAVN(BAVN, AAYN, BAYN, ABYN); RYZQ**AAVN	
LMX series (Residential use)	LMXS**ABV (BAV, ABY, DNV2C, DNY1C)	
Daikin's first generation air conditioning	RSXY**KY1C;	
Imported AC models	RXYQ20TY1(E)56/63KW; RXYQ**PY1C	
	RJQ***ABY; RXMQ***AVE; RXYSQ***AVE RXSQ***AVE; RUXYQ***BAN; RTSCXYQ***BA RUXYQ***AB; RHCXYQ***RSY1; RHXY***SY1N RWXYQ***BY1C; RHSYQ***BY1C; RWXYQ***BY1 RWXYQ***CY1C; RWXYQ***CY1; RWEYQ***CY1C RWEYQ***CY1; RXXYQ***QY1; RXS***AB; RSXY***AB; RCXYQ***AB; RXYQ***QY1; REY***QY1; RSEY***QY1; REYQ***QY1; RSYQ***QY1; RNY***QY1; RXY***QY1; RHY***QY1; RSXY***PY1C; RHXYQ***ABN; RHXYQ***BAH; RZP***EY1CP; RZQ***MUYLK; RQ***MUYLK; RNDQ***MUYLK; RNCQ***MUYLK; RNCOH***MUYLK; RNBQ***MUYLK; RNVQ***MUYLK; RYCP***MUYLK; RZCP***MUYLK; RN***MUYLK; RDXAS***MUYLK; RQCZQ***CAYN; RQ***ABVN; RYCZQ***BAVP; RPCZQ***CAV; RPCZQ***CAY; RYZQ***BAVP; RPZQ***CAV; RPZQ***BAY; RPZQ***CAY; RY***KMY1L; RZY***KMY1L; RXD***KMY1L; RZQH***KMY1L; RXQ***KMY1L; RJZQ***CAV; RJZQ***CAY; RBCZQ***BAV; RBCZQ***BAY; RBZQ***BAV; NRJ***BAV; NRJA***BAV NRZQA***BAV; BRZQB***BAV; NRZQB***Y1; NRZQBN***Y1; RBZQ***BAYRJFQ***BAV; RJEQ***AAV; RJCFQ***BAV; RQCZQ11CAYN; RGQ***BAV; BHSQ***PY1; BRZQB***BAV; 3MXSxxEV2C; 4MXSxxEV2C; LMXS***ABV; LMXS***ABY; LMXS***BAV; NRJ***BAV; NRJA***BAV; NRZQA***BAV; NRZQB***Y1, NRZQBN***Y1; N3M***Y1; N3MN***Y1; NHMN***Y1; SPSM***BAY; SPSM***BBY; SPSM***CAY; RQCZQ8CAVN; RHXY**MY1	

Hitachi :

Series	Outdoor AC unit model	Attentions
6Q module machine series	RAS-**FSN6Q	1. The module side is connected to the "FIF2"port, and the air conditioner side is connected to the "1, 2"port. 2. Connect a single refrigeration system: the air conditioner address is automatically assigned, no need to set an address, the address of the air conditioner can be viewed through the module's web page 3. Connect multiple refrigeration systems: the addresses of all indoor and outdoor units of the air conditioner need to be set through DIP switch on circuit board. (For specific methods to operate DIP switches, please consult our technical staff). 4. If the air conditioner is not under control, but the air conditioner has feedback information, the most possible reason is that the Hitachi wire controller is fake. Just replace it with a real wire controller. 5. In order to match the address of Hitachi air conditioners with other brands, we add 1 to both the actual indoor unit address and the outdoor unit address. The address after adding 1 is the address displayed on the module web page. When controlling the air conditioner, the web page address shall prevail. 6. If the Hitachi air conditioner cannot be found after connecting the module, it is basically a wiring problem. When there are multiple systems, there may be a problem with the address settings. Note: When operating DIP switches on the air conditioner, you must ensure that all indoor and outdoor units are powered off, otherwise the Dip switches will not be effective
D series	RAS-**FSDNQ	
SPRO(3) series	RAS-**FSDNY1Q; RAS-**FSDNY2Q	
SET FREE side air outlet	RAS-**FSNMQ	
Heat recovery module machine	RAS-**FSXNQ	
Cold space	RAS-**FSCNY1Q	
SET FREE MINI	RAS-**FSVN1Q; RAS-**FSYN1Q	
CAM	RAS-**FSNY9Q	
CAM II	RAS-**FSNY9AQ	
VAM series	RAS-**FSYN2QB; RAS-**FSVN3Q; RAS-**FSVN2Q; RAS-**FSYN2Q	
VAM mini	RAS-**FSVN5Q	
VAM villa machine(II)	RAS-**FSYN2QA; RAS-**FSYN2QB	
IVX MINI series	RAS-80HRNM1QA; RAS-**HRNM1Q; RAS-125HYNM1Q	
Multifunctional series	RAS-***FSPNYQ	
ES	RAS-**HRNM2Q	
EX	RAS-**HRN3Q	
EX-PRO series	RAS-**HRN5Q; RAS-**HRN5QA; RAS-**HRN5QB	
Supreme series	RAS-**FSLN1Q; RAS-**FSLNQ; RAS-**FSLNQG; RAS-**FSLYNQ; RAS-**FSLYNQA; RAS-**FSLN3Q; RAS-**FSLN2Q; RAS-**FSLNQE; RAS-**FSLYN1Q	
Energy Saving Pioneer	RAS-**FSN1Q	
Renewal update machine	RAS-**DSR2Q	
SF series	RAS-**FSHNQ; RAS-**FSHYNQ	
New N	RAS-**HN8Q; RAS-**HNY8Q	
U+strong heat	RAS-**HEQ; RAS-**HYEQ	
US	RAS-**HN7Q; RAS-**HNY7Q	
	RAS-***FSXPN2Q; RAS-***FSLPN2Q; RAS-***FSNY5Q; RAS-***FSLNY2Q; RAS-***FSDENY3Q; DLR-***W/BPA RAS-***FSNYAQ ; RAS-335FSPNYZQA*2 ; RAS-125HNYAQ; DLR-160W/BPA; RAS-***FSPUNQ; RAS-***FSDNY3Q; RAS-***FSVNAQ; RAS-***FSNYAQ; RAS-***FNY3Q; RAS-***DVRNQ; RAS-***DVRNYQ; RAS-***FSYN3Q; RAS-***FSVN6Q; RAS-***FSYN2QA; RAS-***HRNM1QA; RAS-***HYNM1Q; RAS-***HRNY2Q; RAS-***HRN3Q; RAS-***HRN5Q; RAS-***HRN5QA; RAS-***HRN5QB; RAS-***HRN5QC; RAS-***FSNY9CQ RAS-***FSLN5Q; RAS-***FSLNY5QA; RAS-***FSLNQB;	
	RAS-***FSPNZ1Q; RAS-***FSPNYZQ; RAS-***FSPNZQ; RAS-***FSNYW1Q; RAS-***HRNMQ; RAS-***FSPNYZ2Q; RAM-***FSQD; RAM-GH***N5HAPC; RAC-F***MVX; RAC-***MVX; RAS-***FEWN1Q/M; RAS-***FSPNZQ; RAS-***FS3Q;	

Toshiba :

Series	Outdoor AC unit model	Attentions
Super MMS-e series	MMY-MHP**HT8-C1/C2/C1F(中国产); MMY-MAP**HT8-C (日本产); MMY-MAP**HT8P-C(泰国产)	1. Connect a single refrigeration system: The module side is connected to the F1F2port, and the air conditioning side is connected to the "U1NU2"port of the indoor unit or outdoor unit (non-polarized). Toshiba air conditioners need to set the centralized control address through the panel of each indoor unit. 2. Connect multiple refrigeration systems: the module side is connected to the "F1F2"port, and the air conditioner side is connected to the "U3/U4"port of the outdoor unit. When connecting the outdoor unit to the outdoor unit, it is also necessary to connect the "U3/U4"port (non-polarized). The outdoor unit needs to set the system address through DIP switch on the circuit board. Three addresses need to be set on the panel of each indoor unit: Outdoor unit address, indoor unit address and centralized control address. (Consult our relevant personnel for specific setting methods). Note: 1. The "U3/U4"port are inactive by factory default. There is a plug line between "U1/U2" and "U3/U4", which must be plugged together to make the "U3/U4"port effective. 2. When operating DIP switches on the air conditioner, you must ensure that all indoor and outdoor units are powered off, otherwise DIP switches will not be effective.
Super MMS-C series	MMY-MH**HC8-C/C1; (泰国产) MMY-MH**HC8-C1;(泰国产)	
Super MMS-i series	MMY-MHP**HT8-C1; MMY-MHP**HT8-C2; MCY-MAP**HT8-C (进口); MMY-MAP**HT8-C (进口); MMY-MAP**HT8-C1F;	
MINi SMMS series	MCY-MHP**HT-C/CF; (中国产) MCY-MHP**HT8-C1/C2/C/CF; (中国产) MCY-MAP**HT-C/CF(中国产); MCY-MAP**HT8-C(日本产); MCY-MAP**HT8-C1(日本产); MCY-MHP**HT8-C1/C1F(日本产); MCY-MHP**HT8-C1F/C2F	
SMMS-i series	MMY-HP**HT8-C1; MMY-AP**HT8-C; MMY-HP**HT8-C1F;	
Side air outlet BIG DI	RAV-SMS**AT8-C	
Model imported from Thailand	RAS-5M34S3AV4C	
MMS-R	MMY-MHP**HR8-C	
	MMY-MAP**HT8; MMY-MUP****HT8-C; MMY-MAP****P-C MMY-MH***C/C1 MCY-MHP***C/CF MCY-MHP***HT8-CF MCY-MHP***HT8-C2 MCY-MHP***HT8-C MCY-MAP***HT-C	

	MCY-MAP***C/CF MCY-MHP***C1F MCY-MHP***C2F MMY-MUP***HT8Y-Cx MMY-AP***HT8(P)-C MMY-HP***HT8-C/C2 MMY-UP***HT8-C	
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Mitsubishi Electric :

Series	Outdoor AC unit model	Attentions
Lingyao	MXZ-8C200VAM1-C; MXZ-8C200VAMZ-C; MXZ-8C200VAMZ1-C; MXZ-8C200VAM-C; MXZ-8C120VAM-CN1;MXZ-8C140VAM-CN1;MXZ-8C160VAM-CN1;	1. Connect a single refrigeration system: The module side is connected to the F1F2 port , and the air conditioner side is connected to the "M1\M2"port for indoor or outdoor unit communication (non-polarized). Automatic address assignment does not require setting an address. Note: Lingyao series can only be connected to outdoor units, and the indoor unit has no wiring port. 2. Connect multiple refrigeration systems:: The outdoor units are connected in series through the "M1/M2"port of TB7 and connected to the "F/F2port s of the module. All indoor and outdoor units of the air conditioner need to set the address through DIP switches on the circuit board (For specific methods for wiring and DIP switches, please consult our relevant personnel). 3. All multi-connections starting with P are controllable.
Lingrong series	PUMY-P***VHMC-S; PUMY-P**VHMC-C; PUMY-P***YKMC-C; PUHY-P***YRKC-A(B); PUHY-P**YRJC-A; PUHY-P***YPKC-A PUHY-P(***YHMC-S(YHMC-C、YKMC-C);PUMY-P***YKM1-CN	
City-Multi Ice Flame	PUHY-HP***YHMC(YSHMC)-B; MXZ-8C***VAMZ-C; MXZ-8C***VAMZ1-C;	
City-Multi series	PUHY-P***YKC(YRKC、YSKC、YSLKC、YSPKC、YSEKC、YLKC、YDKC、YEKC、YJC、YMKC) -A; PUMY-SP***YKMC-SD	
	PUMY-SP***VHMC-SD; PUMY-SP***VHMC-SR	
Heat recovery series	PURY-P***YJMC-A	
Commercial use	PUHY-P(***YHC-A	
R2 heat recovery series	PURY-P200YJMC-A;	
R3 heat recovery series	PURY-P250YJMC-A;	
R4 heat recovery series	PURY-P300YJMC-A;	
R5 heat recovery series	PURY-P350YJMC-A;	
R6 heat recovery series	PURY-P400YJMC-A;	
	PUHY-EHP**YHMC-A; PUMY-SP***VHMC-SD; PUMY-SP***VHMC-SR MXZ-8C***VAM1-C MXZ-12C***YAM-CN1 MXZ-8C***VAM-CN1	

	MXZ-4C***VA-B1 MXZ-5B***VA-B1 MXZ-6A***VA-S MXZ-7A***VA-S MXZ-8A***VA-S PUHY-P***YPKC-A PUHY-P***YLKC-A PUHY-P***EKC-A PUHY-P***YHC-A PUHY-P***YSHC-A PURY-P***YJMC-A PUHY-P***YHMC-B PUMY-P***YBM-CN	
	PUHY-P***YNC-A	

Mitsubishi :

Series	Outdoor AC unit model	Attentions
KX6-Q series	FDC***KXE6Q (-K) ; FDC***KXE6Q (J)	1. The module side is connected to the "XY" port , and the air conditioner side is connected to the "A/B" port (non-polarized). 2. When the module is connected to a single system, the address is automatically assigned, and there is no need to set the address; if the module is connected to multiple systems, all indoor and outdoor unit need to set the address through DIP switch on the circuit board . (For specific methods, please consult our relevant personnel).
KXZ series	FDC***KXZE1G; FDC***KXZE1GQ	
KXZ mini series	FDC***KXZPE1GQ; FDC***KXZPEGQ; FDC***KXZPE1NJ	
KX6-I series	FDC***KXEN6J/6G/6Q	
Kx4 series	RFC(***KX4	
KX6 MINI	FDC(***KXEN6 (J)	
KX6	FDC***KXEN6G ; FDC***KXEN6(J) ; FDC***KXE6(-K); FDC***KXE6G; FDCH***KXE6(-K)	
SCM series	Each indoor unit requires the air conditioner to provide one SC-BIKN-E and one SC-ADNA-E, and then connect the SC-ADNA-E of each indoor unit to the gateway.	
SCM multipipe control	SCM8OZJC-S; SCMA**I;	
	FDC***KXEN6J FDC***KXE6J FDC***KXE6Q-K FDC***KXE6Q FDC***KXE6-K FDC***KXE6 FDCH***KXE6-K FDCH***KXE6 FDCH***KCE6J FDCH***KCE6G FDCH***KCE6Q FDC***KXPEGQ FDC***KXZLE1GQ FDC***KXZWE1NQ	

	FDC***KXDE1GQ FDC***KX6FQ FDC***KXZPE1GJ FDC***KXZEN6 FDCA***615HKXE4D
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Gree:

Series	Outdoor AC unit model	Attentions
GMV 5S series	GMV-***WM/B	
GMV ES series	GMV-***WL/B; GMV-***WL/BS; GMV-***W/B; GMV-***W/A	
GMV 5 series	GMV-***WM/A	
GMV STAR series	GMV-H***WL/A; GMV-H***WL/D; GMV-H***WL/AS; GMV-H***WL/A2; GMV-***WL/L	
GMV TOP series	GMV-H***WL/B; GMV-H***W/B; GMV-H***W/A	
GMV Shu Rui	GMV-HZ***WL/A	
Gree household cold floor Platinum rhyme series	GMV-H***WL/B1	
GMV UP (Zhirui)	GMV-H***WL/C	
Yaju series (no G1/G2 port, connect to D1D2)	GMV-H***WL/F; GMV-H***WL/Fd	
Sixth generation machine	GMV-***WM/X	
GMV Unic multifunctional	GMV-HS***WL/A; GMV-HS***W/A	
	GMV-H***WL/H1; GMV-H***WL/H2; GMV-H***WL/P	
Fourth generation device	GMV-Pd600W/NaB-N1	
	GMV-H***WL/BS GMV-H***WL/L GMV-H***W/A1 GMV-H***WL/H2S GMV-HS***WL/H1 GMV-HS***WL/P GMV-***WM/X GMV-***W/A1 GMV-***WL/C1 GMV-HS***WL/Fd GMV-H***WL/H GMV-***W/J GMV-Pd***w/NaB-N1 GMV-Pd***W/NaFC-N1 GMV-Pd***W/NaC-N1 GMV-R***W3/Na-N1 GMV-Pdm***W/Nab-N1 GMV-***WM/A2 GMV-***WL/FD	

Midea :

Series	Outdoor AC unit model	Attentions
MDV S series	MDV-**(*)W/D2SN1-8V1; MDV-**(*)W/D2SN1-8X1; MDV-***W/D2SN1-8X1; MDV-**(*)W/D2SN1-8U1; MDV-***W/D2SN1-8U1; MDV-***W/D2SN1-8V1;	1. The module side is connected to the "X/Y" port , and the air conditioner side is connected to the "P/Q" port (polarized)for indoor and outdoor unit communication. If you can't find it, just change the line sequence. 2. Some Midea models can connect modules in series. Please consult our relevant personnel for specific methods.
MDVX series	MDV-**(*)W/D2SN1-8U0 (G) ; MDV-**(*)W/D2SN1-8V0 (G) ; MDV-***W/D2SN1-8U0 ; MDV-***W/D2SN1-8V0 ; MDV-***W/DSN1-8U0 ; MDV-***W/DSN1-8V0 ; MDV-***W/DSN1-9U0 ; MDV-***W/DSN1-9V0 ; MDV-***W/D2SN1-9V0; MDV-**(*)W/DSN1-8V0(S); MDV-**(*)W/DSN1-9V0(S)	
MDV 4 (4-25)+ series	MDV-**(*)W/DSN1-***G; MDV-***W/DSN1-***G; MDV-**(*)W/D1SN1T-890(G)	
D4+Digital Vortex	MDV-D**(*)W/SN1-***	
TR+ series	MDVH-V***W/N1-615TR(E1/F1) ; MDVH-V***W/N1-TR(F) ; MDS-H***W(E1); MDS-H***W(S(E1)	
Side air outlet variable frequency multi-split AC	MDV-***W/DSN1-8R0 (8T0/8T1)	
TR series	MDVH-V80W/N1-311TR(E1); MDVH-V100W/N1-521TR(E1); MDVH-V***W/N1-612TR(E1); MDVH-V***W/SN1-612TR(E1); MDVH-V***W/SN1-8R0TR(E1)	
TR+mini	MDVH-V***W/N1-5R0(E1)	
TR+S series	MDVH-V***W/N1-615TR(E1) ; MDVH-V***W/N1-TR(F)	
Exclusive Living	MDVH-V***W/N1-***E1); MDVH-V***W/SN1-***E1)	
Exclusive Living I	MDVH-V***W/N1-***i(E1);	
Joyful Living	MDVH-V (XXX)W/N1- (XXX)P(E1)	
Unlimited Enjoyment	MDVH-V***W/T2N1-***E1)	
DC variable frequency side air outlet	MDV-D(***T1/XFSYN1(A)	
Cool style series	MJZ-80W/BP3N1-311CC(1);MJZ-***W/BP3N1-5R0CC(1); MJZ-***W/BP3N1-615CC(1);MJZ-***W/BP3N1-E01CF(1);	It is necessary to check whether the outdoor unit wiring is AB or XY. Lixiang home and Linglong series also need to be checked.
	MDVH-V***W/N1-LL(E1)II MDVH-V***W/N1-LL(E1)II MDVH-V***W/N1-LL(E1) II MDVH-V***W/N1-E01LX(E1)II MDVH-V***W/N1-E01LX(E1) II MDVH-V***W/N1-E01LX(E1) II MDVH-V***W/N1-DGC(E1) MDV-***W/D1SNIT-890(G)II MDV-***W/D1SNIT-890(G) II MDV-***W/D1SNIT-890(G) MDV-***W/D2SN1-8U1 MDV-***W/D2SN1-8V1	

	MDV-***W/D2SN1-8V1 MDV-***W/D2SN1-8X1 MDV-***W/D2SN1-8U0(G) MDV-***W/D2SN1-8V0(G) MDV-***W/DSN1-9U0 MDV-***W/DSN1-890(G) MDV-***W/DSN1-880(G) MDV-***W/DSN1-891(G) MDV-***W/DSN1-990(G) MDV-***W/DSN1-920(G) MDV-***W/DSN1-940(G) MDV-***W/DSN1-980(G) MDV-***W/SN1-890 MDV-***W/SN1-880 MDV-***W/N1-5R1 MDV-***W/D2SN1-8V1 MDV-***W/D2SN1T-890(G) MDVH-V***W/N1-311(E1) MDVH-V***W/N1-521(E1) MDVH-V***W/N1-610(E1) MDVH-V***W/N1-611(E1) MDVH-V***W/SN1-610(E1) MDVH-V***W/SN1-611(E1) MDVH-V***W/SN1-8R0(E1) MDVH-V***W/N1-310(E1) MDVH-V***W/N1-520(E1) MDVH-V***W/N1-610(E1) MDVH-V***W/N1-611(E1) MDVH-V***W/N1-613(E1) MDVH-V***W/T2N1-210(E1) MDVH-V***W/T3N1-310(E1) MDVH-V***W/T4N1-310(E1) MDVH-V***W/N1-311TR(E1) MDVH-V***W/N1-521TR(E1) MDVH-V***W/N1-615TR(F) MDVH-V***W/N1-310P(E1) MDVH-V***W/N1-520P(E1) MDVH-V***W/N1-610P(E1) MDVH-V***W/N1-611P(E1) MDVH-V***W/N1-TR(F1) MDVH-V***W/N1-5R1(E1) MDS-H***W(E1)II MDS-H***W(E1)II MJZ-***W/BP3N1-E01CF4	
	MJZ-***W/BP3N1-311CC(1) MJZ-***W/SN1-CF(1) MJZ-***W/BP3N1-E01CF3(1)	

Haier:

Series	Outdoor AC unit model	Attentions
SA series	RFC**MXSKYA; RFC** MXSKYN; RFC***MXKYA	1. The module side is connected to the "F1/F2" port , and the air conditioner side is connected to the "P/Q" port (non-polarized). 2. Haier air conditioners do not support the series connection of multiple outdoor units. Only one system can be connected to one module.
MDV S series	RFC**MX4 (-A)	
Mx7 (MX6) full DC frequency conversion series	RFC**MX7 (-V) ; RFC**MX6;	
MX8 full DC frequency conversion series	RFC***MXMLYA; RFC***MXMLYR;	
MXS series	RFC***MXS (智悦) ; RFC***MXS-T; RFC***MXS-A RFC**MXS-V	
Side air outlet series	RFC**MXSAVA(G)	
Yunzun series	RFC**MXSDVA (G) ; RFC**MXSDYA	
Zhizun series	RFC**MXSAVA ; RFC**MXSAYA ; RFC**MXSAYH RFC**MXSAVB;	
Zhizun+ series	RFC**MXSCVA; RFC**MXSCYA	
Zhizun s series	RFC**MXSAVC(G); RFC**MXSCVC(G) ; RFC***MXSAYC(P); RFC**CX7; RFC**M-A; RFC**M-B	
Variable capacity MX	RFC**MXS(-V)	
Home central air conditioner KVR	KVR **W/D522B -	
	KVR-***W/D522B KVR-***W/D532B RFC***MXMLYB RFC***MX7 RFC***MX RFC***MXSAVA RFC***MXMLMR RFC***MX4 RFC***MX4-T RFC***MX4-D RFC***CXSVJB RFC***MXSAVC(F) RFC***STSVJA RFC***MXSAVD(G)	

York water machine:

Series	Outdoor AC unit model	Attentions
Before making the Guangzhou York water machine smart, be sure to check with the household owner whether the indoor and outdoor units of the air conditioner have 485 linkage function. When the indoor unit is turned on, the outdoor unit will run automatically (you cannot manually turn on the outdoor unit), which means that the indoor and outdoor units have 485 linkage. If there is no 485 communication line, intelligence is not allowed. To upgrade the air conditioner with modules, choose Guangzhou York water machine. The module can be connected to both indoor and outdoor units. The air conditioner is connected to the AB port of the thermostat, and the module is connected to XY. The port of the outdoor unit		
	YVAG***HSExx YVAG***RSExx YVAT***RSExx YVAF***RSExx YVAG***RMExx	1. The panel needs to use either T8600 or T8610; 2. Ensure that the indoor and outdoor unit of the air conditioner are linked: (Only when the above two conditions are met at the

York multi-split AC :

Series	Outdoor AC unit model	Attentions
YES-super+	YVOH**VPEMBQ; YVOH**VAEMBO;	1. Same as Hitachi, please refer to Hitachi. 2. All York multi-split ACs produced in Qingdao are supported.
YES-edge+	YTOH**VPEMBQ; YTOH**VAEMBO; YVOH**VPEE; YVOH**VVEE; YEOH***PEMBQH YDDN022/28H0NAGQH YM0M120/100HSEEAQ	
YES-Eco	YEOH**HSEM; YEOH**VSEE	
Home YES-mini	YROH**HSEK; YVOH**KH-OA; YVOH**HSEK	
YES-slim/+	YDOH**HSEKBQ; YDOH**HSEMBQ; YVOH**HSEM	
YES-smart/+	YKOH**HSEKBQ; YKOC**HSEK	
YES-power/+	YCOH**HSEKBQ; YCOH**HSEK	
YES-comfort/+	YROH**HSEKBQ; YROH**HSEMBQ; YROH**HSEK	
	YEOH**HSEM; YXOH**HSEM; YCOH**HSEM	
YES-free Multi-pipe AC	YFOH**H3EAAQ; YFOH**H4EAAQ	York multi-pipe AC cannot be controlled at present
YES-multi Multi-pipe AC	YPOH**H3EAAQ; YPOH**H4EAAQ	
	YROH***HSEKBQ1 YCOH***H SEMBQ YKOH***HSEKBQ1 YFOH***HXEAAQ YMWV***NPEEAQ YMWV***NAEEAQ YQOH***VPEMBQ YQOH***VAEMBO YEOH***VPEMBQH YEOH***VAEMBOH YDOH***EVF-0B YKOH***HSEM(BQ) YMOM***HSEAAQ YMOM***HSEEAQ YDHM***R2NAAQ YUOM***HSEAAQ YUOM***HSEABQ YVOH***HVVE YDOH***EVV-0B YROH***HSEEAQ	

Hisense :

Series	Outdoor AC unit model	Attentions
Hi-Multi G Series	HVR-**W/SG1FZBp	Same as Hitachi, please refer to Hitachi.
G2 Series	HVR-**W/SG2FZBp	
Hi-Multi X Series	HVR-**W/SC2FZBp	
C Series	HVR-**W/SC1FZBp	
Hi-Multi M Series	HVR-**W/SM1FZBp	
M2 Series	HVR-**W/SM2FZBp	
Hi-Smart H Series	HVR-**W/H1FZBp; HVR-**W/H1FZBp1; HVR-**W/SH1FZBp; HVR-**W/SH1FZBp	
Honor family Series	HVR-**W/E2FZBp; HVR-**W/L2FZBp; HVR-**W	
E Series	HVR-**W/E1FZBp	
Hi-Smart L Series	HVR-**W/L1FZBp	
Hi-Smart E Series	HVR-**W/E1FZBp	
Villa Home Series	HVR-**W/SK1FZBp	
Hi-Multi C Series	HVR-**W/SH1FZBp	
	HVR-**W/H2FZBp; HVR-**W/SH2FZBp HVR-***W/SM2FZBp HVR-***W/SC2FZBp HVR-***W/H3FZBp HVR-***W/E3FZBp HVR-***W/SL2FZBp HVR-***W/E2FZBp/T HVR-***W/L2FZBp/T HVR-***W/L3FZBp/T HVR-***W/SL2FZBp/T HVR-***W/A1FZBp HVR-***W/H2FZBp/T; HVR-***Q/G1FZBp	

LG :

Series	Outdoor AC unit model	Attentions
MULTI V 5	ARUN**LTE5;	1. Connect the "CEN.A, CEN.B" port of the outdoor unit to the "X, Y" port of the module (polarized). If you can't find the air conditioner, unplug the cable and try searching for the air conditioner again. 2. LG does not support the series connection of multiple systems, and only one refrigeration system can connect to one module.
MULTI V IV	ARU**WT4;	
MULTIVIEW full DC frequency conversion	ARU**ST4; ARU**WT4;	
MULTI V IV PRO full DC frequency conversion	ARU**LT4;	
Commercial Multi V5Pro series	ARU**LT4;	
MVS IV	ARU**MT4;	
Frequency conversion MULTI series	AMU**N3F; AMU**N4F; AMU**N5F	
MVS II	ARU**WT4;	
MULTIV S smart household	ARU**WS; ARU**WS4; ARUN**LSS0;	
Home Multi V series multi-split	ARU**MT4;	
	ARU**5DS	

Panasonic :

Series	Outdoor AC unit model	Attentions
FSV EV	CU-ME**B1YD6;	1. Connect the "U1/U2" port of the outdoor unit to the "F1/F2" port of the module (non-polarized). 2. Panasonic does not support the series connection of multiple systems, and only one refrigeration system can connect to one module.
MASTER GMAX	CU-ME**B1YX6; CU-ME**B1YX6N	
6N1	CU-ME**B1YD5	
MASTER III	CU-ME**B01; CU-ME**B1Y02; CU-ME**BX3; CU-ME**BYX3; CU-ME**BYX6	
MASTER mini	CU-ME**B03	
MASTER GAMX	CU-ME**BYX3	
	DLR-**W/BPB02; DLR-**W/BPB03; DLR-**W/BPX3; DLR-**W/BPYX3; U-10LE1H7; CU-ME**BL1; CU-ME**B08; CU-ME**BD3A; CU-ME**BD5; CU-ME**B1YD6N CU-ME**B1YS6N CU-ME**BS6N CU-ME**BX6 CU-ME**BX5 CU-ME**B08w CU-ME**BD3 CU-ME**BYS6 CU-ME**BS6 CU-ME**BYS3 CU-ME**B1YS6N CU-ME**S6	

Mitsubishi Heavy -Haier :

Series	Outdoor AC unit model	Attentions
Vx6 (Commercial use)	RFC**VX6; RFC**VX6-K; RFC**VX6-R	1. The module side is connected to the "XY" port, and the air conditioner side is connected to the "A/B" port (non-polarized) . 2. Some models of Mitsubishi Heavy -Haier do not support multi-system series connection, and one system can only connect to one module.
Kx6 (Commercial use)	RFC**KX6; RFC**KX6-1-K; RFC**KX6-1; RFC**KX6-K	
Kx4 (Commercial use)	RFC**KX4; RFC**KX4-K	
TX smart building	[If the wire controller is a three-core wire controller, you need to remove the original factory wire control. If it is a two-core wire controller: the two-way wire controller can be controlled, but the one-way wire controller cannot be controlled: 120 and the two-way 86 type wire controller can be controlled, and the one-way 86 wire controller cannot be controlled by type wire controller].	
Vx6 MINI central air conditioner for home	RFC**VX6	
VX5 central air conditioner for home	RFC**VX5	
VX6 central air conditioner for home	RFC180VX5	
Vx7 central air conditioner for home	RFC255VX5	
VX8 central air conditioner for home	RFC280VX5	
TX/JX central air conditioner for home	[If the wire controller is a three-core wire controller, you need to remove the original factory wire control. If it is a two-core wire controller: the two-way wire controller can be controlled, but the one-way wire controller cannot be controlled: 120 and the two-way 86 type wire controller can be controlled, and the one-way 86 wire controller can be controlled. cannot be controlled by type wire controller].	

	RFC***X5 RFC***X RFC***TX-N	
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Samsung:

Series	Outdoor AC unit model	Attentions
NASA	AM***FXVAGH/SC; AM***FXVSGH/SC; AM***FXVRGH/SC; AM***XM***/SC; AM***SM***/SC; AM***FXVRGH5	1.F1/F2 port of the outdoor AC unit are connected to the "XY" port of the module (port polarity needs distinguishing). If the AC cannot be found, please reverse the cable and try to search the AC again. Note: the port for centralized control cannot be connected, otherwise a fault will be reported. 2.Samsung does not support the series connection of multiple systems. So one cooling system connects to one module only.
SUPER DVM S	AM**KXVAGH; AM**KXVRGH; AM**KXVGGH;	
DVM S	ADX**VSGHA; ADX**VAGHA; ADX**VRGHA	
DVM S Shooter	AM**JXVDGH	
SUPER FJM	RVXJHF**EA	
DVM S ECO	AM**JXMKEH; AM**FXMDGH; AM**KXMDGH; AM**JXMDEH	
MLL	AM030HCMDEH/SE; AM**HCMDEH/SE; ADX**MDGHA	
FJM mini	AJ**JCJ4EH5	
CAC	ACN**DEHA/ACX**ADEHA; ACN**DGEA/ACX**DGEA;	
	AM**JXVAGH; AM**JXMKEH5; AM**KXMDGH	
	AM***FXVSGH	
	AM***FXVRGH	
	AD***xVSGHA	
	AD***xVAGHA	
	AD***xVRGHA	
	AM***HCMDEH/SC	
	AD***xMDGHA	
	ACN***4DEEA/SC	
	ACN***4DGEA/SC	
	AC***FBLSEE/SC	
	ACN***MDEEA/SC	
	DH***EZVA1C	
	AC***xDEEA/SC	
	AC***xDGEA/SC	
	AC***FCBSEE/SC	
	AC***xMDEEA/SC	
	ACN***DEHA/SC	
	ACN***DGHA/SC	
	ACN***LDEHA/SC	
	ACN***MDGHA/SC	
	AC***KN4DEH/SC	
	AC***MN1DEH/SC	
	AC***xADEHA/SC	
	AC***xADGHA/SC	
	AC***xLDEHA/SC	
	AC***xMDGHA/SC	

	AC***KXADEH/SC AC***KXADGH/SC AC***MX1DEH/SC AM***KXWDEH/SC AM***FXWAGR/SC AM***JXMKEH5SC AM***TXMDEH AM***mxmdeh/sc AM***JXMDEH5SC AM***FXMDGH/SC AM***KXMDGH/SC AM***JXVDGH/SC AM***BXMDEH5	
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Carrier multi-split AC:

Series	Outdoor AC unit model	Attentions
	38VR**H**; 38VR**H**S;	The fluorine machine is the same as Midea. Please refer to Midea.
	38VR**H**K0;	
	38VF**H**;	
	38VR***H102010 38VR***H10201S 38VR***H11901S 38VR***H119010 38VR***H109010 38VR***H10205S 38VR***H10901S 38VR***H109013 38VR***H109011 38VR***H102050 38VF***H109015 38VR***H1090K0 38VF***H109010 38VF***H109011 (56KW) 38VS***HGSC 38VP***H109020 GCHV-22F1C	

Carrier water machine :

Series	Outdoor AC unit model	Attentions
The wiring of the Carrier water machine is as shown in the figure below. It can be connected to either the outdoor unit of the air conditioner or the indoor unit thermostat (no polarity, the module will automatically jump to the polarity). Before making the Carrier water machine smart, be sure to check with the householder whether the indoor and outdoor units of the air conditioner have 485 linkage function. When the indoor and outdoor units are turned on, the unit will run automatically (the outdoor unit cannot be turned on artificially), which means that there is 485 linkage between the indoor and outdoor units. If not, intelligent control cannot be performed. The picture shows the thermostat of the indoor unit. The communication port of the thermostat is circled in the picture. The communication ports of all thermostats will be connected to the ab port of the outdoor unit hand in hand. The module is upgraded to Carrier water machine program. Connect to the XY port, and the air conditioner is connected to the AB port of the indoor unit or the outdoor unit. The wiring has no polarity.		
		
	30RQV034H910BCARS; 30RQV***Hx 30RQV***Mx 30RQVE***P***BCARS	Compatible panel: ZHCS, air conditioner, Panasonic, Hailin 808, version number 101. HDL + Carrier water machine new protocol
	30RQVE***H***BCARS 30RQVF***M***ACARS	

Aux :

Series	Outdoor AC unit model	Attentions
ARV X7 modular machine	DLR-***W5/DCM-ARVX7; DLR-***W5/DCM3-ARVX7;	1. The "X/Y" port of the outdoor unit is connected to the "XIY" port of the module (polarized). If the AC cannot be found, please reverse the cable and try to search the AC again. 2. Aux does not support the series connection of multiple systems. Only one refrigeration system can be connected to one module.
ARV-X	DLR-***W5/DCM-ARVX; DLR-***W5/DCM3-ARVX	
ARV-5	DLR-***W5/DCM-ARV5;	
ARV/HII DC variable frequency	DLR-***W5/DCM-ARV3;	
ARV-II	DLR-***W5/DCM-ARV2; DLR-***W5/DCM; DLR-***W/DCZ2; DLR-***W/DCZ6; DLR-***W5/DCM+; DLR-***W5/DCPM; DLR-***W/DCZ+; DLR-W5/DC; DLR-***W5/DCSM; DLR-***W/DCZ3; DLR-***W5/DCZ2; DLR-***W/DCZ7	
	DLR-***W5/DCM-ARVX7 DLR-***W5/DCM3-ARVX7 DLR-***W5/DCM-ARVX DLR-***W5/DCM3-ARVX DLR-***W5/DCM-ARV5 DLR-***W5/DCM-ARV3 DLR-***W5/DCM-ARV2 DLR-***W5/DCZ6 DLR-***W/DC06 DLR-***W5/DCSM-ARV3	

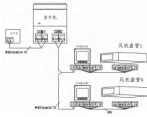
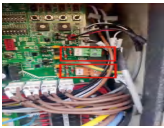
Bosch:

Series	Outdoor AC unit model	Attentions
Multi-split AC for home	DCIM**-1C; DCIM**-3C;	Same as Midea, please refer to Midea.
DCIV series	DCIV**/*-3C;	
DCIS series	DCIS**/*-3C;	
	DCIM***-1C DCIM***-3C DCIS***-3C DCIV***-3C	

McQuay multi-split AC :

Series	Outdoor AC unit model	Attentions
MDS-DR5 variable frequency multi-split AC	MDS**DR5;	1. The "APC/BPC" port of the outdoor unit is connected to the "XY" port of the module (polarized). If the AC cannot be found, please reverse the cable and try to search the AC again.
carefree DC variable frequency multi-split AC	MDS**ER5;	2. McQuay does not support the series connection of multiple systems. Only one refrigeration system can be connected to one module.
ECO Super series DC variable frequency multi-split central air conditioning unit	MDS**E5-FV; MDS**ER5-FV;	
	MDS320BR5 MDS***DR5 MDS***ER5 MDS***ER5-AE MDS***ER5-FV MDS***ER5 MDS***E5-FV MDS***ER5-FV MDS***BR5-FAA MDS***BR5 MDS***ER5 MDS***ER5-FVA MDS***BR5 MDS***FR5 mds-w120br5 MDS***FR5-FV	

McQuay water machine :

Series	Outdoor AC unit model	Attentions
The wiring method of McQuay water machine is as shown in the figure below: When upgrading the module, select McQuay water machine. The module is connected to Xy. The air conditioner can only be connected to the ApC Bpc port of the outdoor unit (no polarity, the module will jump the polarity by itself). Before making the McQuayr water machine smart, be sure to check with the householder whether the indoor and outdoor units of the air conditioner have 485 linkage function. When the indoor and outdoor units are turned on, the unit will run automatically (the outdoor unit cannot be turned on artificially), which means that there is 485 linkage between the indoor and outdoor units. If not, intelligent control cannot be performed.   The picture above shows the thermostat of the indoor unit. The circled area in the picture is the communication port of the thermostat. All thermostats are connected to the communication port of the outdoor unit hand in hand.		
 Ain and Bin are the communication ports for the outdoor unit and all indoor thermostats, which are linked communication ports. ApC and Bpc are the communication ports between the air conditioner and the module.		
	MACxxER5 MACxxDR5 MAC***DR5SQ	Make sure there is linkage between the indoor and outdoor units of the air conditioner, and only when this is met can it be controlled.

Chigo :

Series	Outdoor AC unit model	Attentions
Some specific models	Any Chigo multi-split AC is OK	1. The "P/Q" port of the outdoor unit is connected to the "XY" port of the module (polarized). If the AC cannot be found, please reverse the cable and try to search the AC again. 2. Chigo does not support the series connection of multiple systems. Only one refrigeration system can be connected to one module.
	CMV-V***WSAM-C	
	CMV-V***WA	
	CMV-VD***WSAM-C	
	CMV-VH335WSA	
	GCHV-V***WA-B	

Vaillant :

Series	Outdoor AC unit model	Attentions
	VAV 1-***NO	Same as Midea, please refer to Midea

Trane multi-split AC :

Series	Outdoor AC unit model	Attentions
GEN mini	Any multi-split AC is OK	1. The "A/B" port of the outdoor unit is connected to the "XY" port of the module (polarized). If the AC cannot be found, please reverse the cable and try to search the AC again. 2. Trane does not support the series connection of multiple systems. Only one refrigeration system can be connected to one module.
GEN YUE X	Any multi-split AC is OK	
GEN3+	Any multi-split AC is OK	
	GEN mini GEN YUE X GEN3+ TMR***ADA TXM***AD	

Trane water machine :

Series	Outdoor AC unit model	Attentions
Before making the McQuayr water machine smart, be sure to check with the householder whether the indoor and outdoor units of the air conditioner have 485 linkage function. When the indoor and outdoor units are turned on, the unit will run automatically (the outdoor unit cannot be turned on artificially), which means that there is 485 linkage between the indoor and outdoor units. If not, intelligent control cannot be performed. If the householder does 485 linkage, a Trane network protocol module must be added (this module is installed by the air conditioner side). The network protocol module is as shown in the figure below:  Upgrade module through Trane water machine program, the XY port is connected to the AB port of the network protocol module communication interface 1, and the wiring has no polarity.		
	WPWE***SN3B CGHR***BNAR CGHR***DNAR	Make sure there is linkage between the indoor and outdoor units of the air conditioner, and only when this is met can it be controlled.

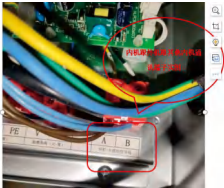
TICA :

Series	Outdoor AC unit model	Attentions
	Any TICA multi-split AC is OK	1. The "A3/B3" port of the outdoor unit is connected to the "XY" port of the module (polarized). If the AC cannot be found, please reverse the cable and try to search the AC again. 2. TICA does not support the series connection of multiple systems. Only one refrigeration system can be connected to one module.
	TIMS***AHT TIMS***ASA	

Fujitsu multi-split AC :

Series	Outdoor AC unit model	Attentions
	AJQ***LAHA	Need to add an additional module
	AJQ***LALH AJQ***LALBH AJQ***LALCH AJQ***LCLAH	

Emerson water machine :

Series	Outdoor AC unit model	Attentions
Before making the Emerson water machine smart, you must check with the householder whether the indoor and outdoor units of the air conditioner have the 485 linkage function. 485 linkage means that the indoor and outdoor units have communication lines. If there is no communication line, it will not be smart. The module can be connected to both indoor and outdoor units  The indoor unit is connected to the AB port of the main board of the indoor unit.  The outdoor unit is connected to the A2 B2 port of the outdoor unit. The module is connected to the XYport . When upgrading, choose Emerson water machine.		
	XMSI-V09A-TXP-D01 XMUI-V12A-TXP-D01	Emerson water machine needs to check the 485 linkage function of the indoor and outdoor units of the air conditioner. Only if there is linkage can it be controlled.

TCL :

Series	Outdoor AC unit model	Attentions
	TMV-VD***W/N1	

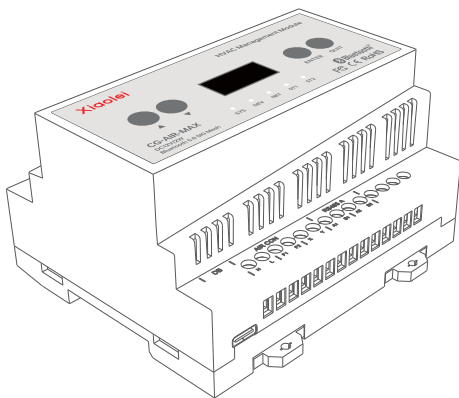
EKEK :

Series	Outdoor AC unit model	Attentions
Full DC variable frequency multi-split AC	EKR***ER1	Connect to outdoor unit A1B1 only

Note: The models in the list are for reference only. Please consult our technical staff for specific brands and models.

Xiaolei

CG-AIR-MAX 中央空调暖通模块



产品说明书

www.xiaolei.cn

产品介绍

中央空调暖通模块采用蓝牙 5.0 SIG Mesh协议，多台分机仅需1个模块便可全部识别控制。只需简单几步就可将传统中央空调、新风、地暖“秒变”智能。通过手机APP可远程操作、定时控制、支持场景联动的智能化空调设备，并可与其他智能设备形成智能联动，进而将中央空调、新风、地暖纳入到智能系统中。

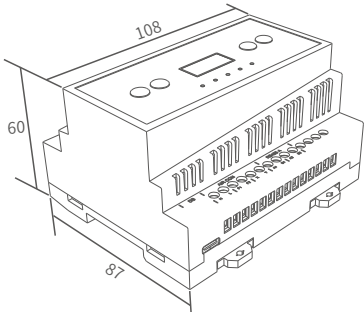
注：客户购买对应新风/地暖产品前，需与厂家沟通提供对应通信协议给到我司进行确认及开发后，方可使用。

技术参数

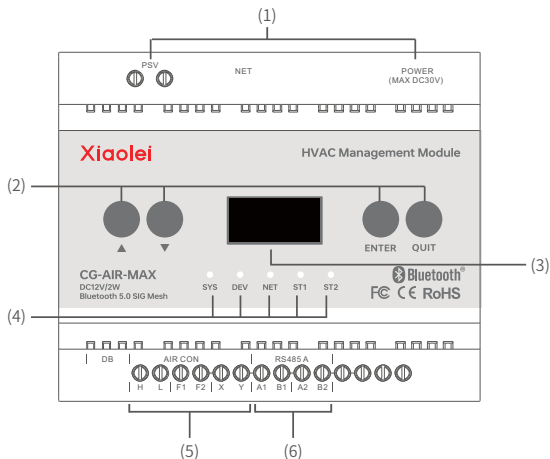
产品名称	中央空调暖通模块
产品型号	CG-AIR-MAX
无线类型	Bluetooth 5.0 SIG Mesh
输入电压	DC 12V
消耗功率	2W
工作温度	-20℃~55℃
工作湿度	10~90%RH (无凝露)
空调通讯线间电压	AC 5V
安装轨道	TS-35/7.5或TS-35/15

产品尺寸

单位：mm



组件说明



- 1) POWER接口:供电口，插孔及供电端子均可。（注意：电源规格为 DC12V，如果使用不匹配的电源，可能会导致本产品损坏。）
- 2) 按键：实现对液晶屏显示内容的翻页及一些的设置，并可通过组合键实现不同的功能。
- 3) 液晶屏：显示是否通讯正常、正在控制的空调品牌及数量、搜索到的新风的数量，以及本产品设备参数。
- 4) LED指示灯：工作状态指示灯，具体含义见指示灯说明。
- 5) AIRCON接线端：根据不同协议通过不同的接口与不同品牌的空调进行对接。
- 6) RS485 A 接口：基于RS485协议的新风、地暖等其他系统的对接接口。

按键指示说明

1. ▲ 键：短按向上翻页（注：长按此键可以进行中英文切换）
2. ▼ 键：短按向下翻页。
3. ENTER:确定键。
4. QUIT：按此键可以进行返回首页操作，长按此键可以进行无线入网操作。

指示灯说明

名称	代表设备	灯状态	含义
SYS	网关自身	红灯常亮	未授权
		绿灯慢闪	网关正常
		黄灯常亮	网关异常
		绿灯常亮	网关初始化中
DEV	设备端	绿灯常灭	搜索空调中
		绿灯闪烁	网关已经找到空调、新风、面板设备，常态运行时绿灯慢闪，设备有数据时绿灯快闪
		红灯常亮	网关没有找到空调、新风、面板设备，空调总线有故障代码或总线无任何数据时
NET	智能端	红灯常亮	智能端模块故障 (长时间无通讯或模块失效)
		黄灯常亮	网关的智能端模块脱落
		绿灯闪烁	正在配网或连接
		绿灯常亮	配网完成
		熄灭	未连未配
ST1	蓝牙端	熄灭	手机蓝牙未连接
		绿灯常亮	手机蓝牙已连接
ST2	WIFI	熄灭	WIFI 未连接
		绿灯常亮	WIFI 已连接

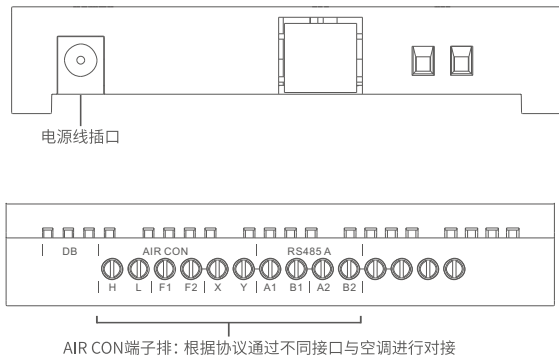
产品安装

一. 安装步骤

1. 确认空调系统处于上电状态，并排查所有接入集中控制的空调室内、外机是否全部上电。
2. 确认空调系统经过空调厂商调试运转成功，无任何警报或异常。
3. 确认空调室内机及对应的室外机的地址并记录(例如大金空调，每个内机都需要有编号，并且从00开始计数，连续不重复，如1-00, 1-01, 1-02, 1-03, 1-04)。
4. 断开空调系统内所有设备电源。
5. 连接空调通信线，根据说明接相应的接口(详情请参考说明书P5)。
6. 确定中央空调暖通模块的端口选择及通讯参数匹配。
7. 系统设备上电，等待系统准备就绪即可使用。

注意：本产品初始默认为日立空调，选择其他品牌需进行模块的升级及切换。

硬件端口结构如下图所示：



品牌	网关侧接线 端口	空调侧接线 端口	接线端口极性	是否必须 外接机
大金-多外机	F1、F2	F1、F2 (外-外)	无	是
大金-单外机	F1、F2	F1、F2 (内-外)	无	否
三菱电机-多外机	F1、F2	M1、M2 (TB7)	无	是
三菱电机-单外机	F1、F2	M1、M2 (TB3)	无	否
三菱电机-菱耀	F1、F2	M1、M2 (外机) M1、M2 (分歧箱)	无	否(可接分歧箱)
日立	F1、F2	1、2	无	否
东芝	F1、F2	U1、U2	无	否
松下	F1、F2	U1、U2	无	否
海信	F1、F2	1、2	无	否
海尔	F1、F2	P、Q	无	否
约克-青岛	F1、F2	1、2	无	否
格力	H、L	G1、G2	有(H-G1,L-G2)	是
	H、L	D1、D2	有(H-D1,L-D2)	否
TCL	H、L	F1、F2	有(H-F1,L-F2)	否
三菱重工	X、Y	A1、B1	无	否
	X、Y	A2、B2	无	否
美的、博世、 开利	X、Y	X、Y	有(X-X,Y-Y)	是
	X、Y	P、Q	有(X-P,Y-Q)	否
美的-酷风	X、Y	A、B(外机)	有(X-A,Y-B)	是
奥克斯	X、Y	A、B	有(X-A,Y-B)	否
三星	X、Y	F1、F2	无	否

品牌	网关侧接线端口	空调侧接线端口	接线端口极性	是否必须外接机
LG	X、Y	A, B(CEN)	有(X-A,Y-B)	否
麦克维尔	X、Y	Apc,Bpc	有(X-Apc,Y-Bpc)	是
天加	X、Y	A3、B3	有(X-A3,Y-B3)	否
志高	X、Y	P、Q	有(X-P,Y-Q)	否
特灵	X、Y	A、B	有(X-A,Y-B)	是
约克户式水机	X、Y	A、B	有(X-A,Y-B)	是
	X、Y	A1、A2	有(X-A2,Y-B2)	是
麦克维尔户式水机	X、Y	Apc、Bpc	有(X-Apc,Y-Bpc)	是
开利户式水机	X、Y	A、B	有(X-A,Y-B)	是
特灵户式水机	X、Y	CN29(A、B)	有(X-A,Y-B)	是

具体空调品牌型号表请查看说明书附件P18。

1: 端口极性标注“无”，则网关接线端口与空调接线端口之间的接线可以随意；端口极性显示“有”，则网关接线端口与空调接线端口之间的接线必须根据说明书网关端口下方标注顺序与空调端口下方端口顺序对应接线。

例如：美的，网关接线端口极性标注“有”，则需要把空调X接线端口接到网关X接线端口，空调Y接线端口接到网关Y接线端口。

2: 三菱电机多外机系统时集控线接TB7“M1,M2”，并把室外机PCB板集控开关CN41的跳线帽插到CN40上。

二. 接线方式及注意事项

空调室内机与室外机通讯线由空调施工方负责，与空调室内、外机之间的制冷剂铜管一样，它属于空调系统的一部分，无需弱电集成方考虑。

注意：国产机型美的、三菱重工、格力仅支持一个中央空调暖通模块控制一个空调外机。

蓝牙连接示意图（以大金空调为例）

单外机

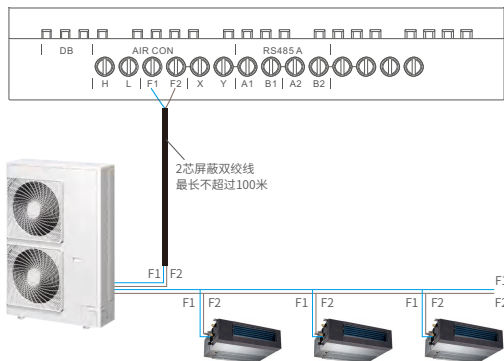


多外机



本产品通过2芯屏蔽双绞线连接到空调系统室外机上，进而与该空调系统内所有的室内机通讯，实施监控。从空调室外机到本产品的屏蔽双绞线要求线径 0.75mm^2 以上，总长不超过100米，可由空调施工方预留或后期增设。本产品与弱电集成系统之间的通讯也采用双绞线实现，该通讯线的参数要求及施工细节请根据模块与弱电集成系统之间的位置确定。(本产品需要安装在户内，可以安装在智能家居控制箱或天花检修口等)

产品和空调上的接线柱（以大金空调为例）示意图如下：



接线操作的注意事项：

1. 不同控制方式的输入端子接线端子不同。
2. 使用设备自带电源或者正规厂家出品的DC12V电源。
3. 在进行接线操作时请把本产品、空调的电源切断。
4. 所有的信号线电缆请不要与电源线以及其它的信号线并排走线，可能会引起由于干扰而产生误动作。如果要并排走线，请保持和空调通讯的接线距离在15cm，和其他接线距离30cm以上，或者将电缆接入铁制保护管并将保护管的一端接地。机箱必须进行D种接地。
5. 错误地将电源线连接到信号端子的情况下，保险丝会烧断以保护印刷电路板。这个时候，请联系厂家，严禁私自拆卸维修。

三. 空调/新风/地暖品牌选择

1. 将空调暖通模块接通电源，屏幕显示品牌切换升级小程序的二维码 (如下图)，使用微信扫描二维码进入小程序。



2. 确保手机蓝牙已开启，点击“未连接设备”等待搜索完成，找到并连接“CG-AIR-MAX”开头的设备；切换到【升级】页面，按实际应用选择对应的空调/新风/地暖品牌（其余为默认选项），点击“下载最新固件”固件下载完成后会弹窗提示“升级成功，网关重启”，等待网关重启完成后即升级成功，刷新手机小程序页面。



3. 网关页面可查看空调参数信息以及对本网关485地址设定并可以进行网关重启。



4. 空调页面可对暖通设备进行开关、温度、风速等设定用以测试，下图以空调为例（注意：点击下方设置后设定方可生效）。



5. 设备运行异常时，液晶面板上显示本机运行中的位置会变成显示设备的故障代码字样及四位的数字代码，此时您需要将代码提供给厂家处理。当设备故障解除后会显示本机设备运行中。

软件:2.4 硬件2.5
D8:13:2A:C8:90:A2
空调故障：无

注意：大金、东芝等需要对线控器手工编码的品牌空调，需要先完成线控器上的编码操作后，才能搜索到。

APP操作说明

模块配网前需确保空调/新风/地暖可以正常运转无故障，模块已经和空调/新风/地暖正常连接并显示所连接的空调/新风/地暖数量。

客户购买对应新风/地暖产品前，需与厂家沟通提供对应通信协议给到我司进行确认及开发后，方可使用。

1. 注册并登录L-Home账号

通过手机扫描下方二维码，按提示完成APP安装后即可进行注册/登录操作。



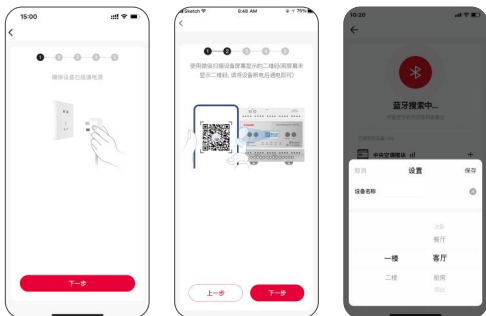
2. 模块配网

2.1 长按模块上的“QUIT”键持续5秒以上触发入网，屏幕显示“尚不在网”表示退网成功，此时可以被手机蓝牙搜索到。

2.2 APP上新用户创建家庭后，在“房间”界面点击右上角【+】进行添加。
在添加设备列表中选择【中央空调暖通模块 CG-AIR-MAX】。



2.3 按照界面提示进行搜索，当搜索到模块时点击【+】按钮进行添加。设置名称及所属房间后保存，即表示已成功配网。



2.4 在“房间”界面中，点击搜索按钮或【搜索子设备】将自动搜索中央空调/新风/地暖设备，完成搜索后，即可用手机APP控制，实现智能生活。



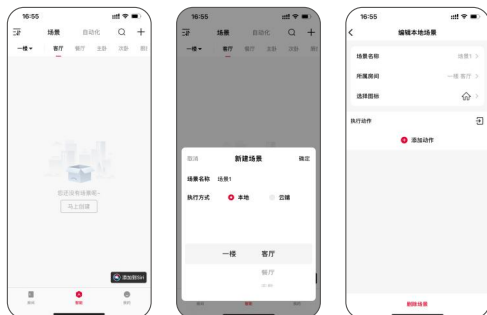
3. 控制界面设置

点击已添加的空调/新风/地暖右上角【...】按钮进入设备控制界面，可调节温度、风速、开/关设备等操作。点击右上角【⊕】图标可更改设备名称、所属房间。



4. 本地场景

切换到“智能”界面，点击右上角【+】创建本地场景，设置执行动作关联空调暖通模块后，保存场景，点击【智能】界面中已设置的场景，即可执行成功，实现中央空调/新风/地暖的本地联动。



5. 云场景与自动化

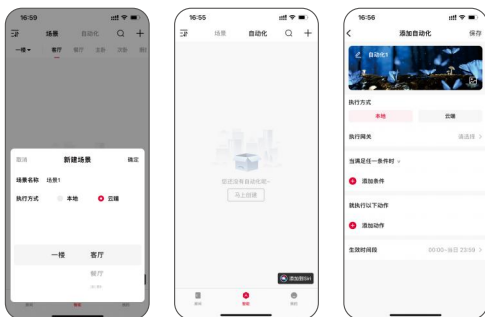
确保家庭内已添加智能网关，如超级面板6S。

云场景：

切换到“智能”界面，点击【+】创建云场景。设置执行动作后，即可实现远程联动。

自动化：

在“智能”界面中选择【自动化】，点击【+】创建自动化。可选择本地/云端执行方式，以及设置触发条件及执行动作。当满足已设置的触发条件时，自动触发一系列设备动作，实现远程联动。



模块退网

方法一：APP“房间”界面中，点击已添加的模块进入设备控制界面，点击右上角【⊗】图标，在设置界面中点击【删除】按钮即可。

方法二：长按模块上的“QUIT”键，直至设备屏幕显示“退网成功”后即表示退网成功声后即表示退网成功。

固件升级

- 1、为了保证用户对于模块使用的实用性、便捷性和可变更性，需要手动进入微信蓝牙小程序点击升级进行相应的固件升级操作(详情请参考说明书P9)。
- 2、增加或优化模块的功能需在手机APP“我的”界面中，点击【固件升级】按钮，选中模块点击【现在升级】，等待升级完成即可。

注意事项

- 请由具有专业资格的人员进行调试安装;
- 良好的散热条件会延长产品的使用寿命, 请把产品安装在通风良好的环境;
- 请检查使用的工作电压是否符合产品的参数要求;
- 通电调试前, 应确保所有接线正确, 避免因接线错误而导致设备损坏;
- 如果发生故障, 请勿私自维修; 如有疑问, 请联系供应商。

* 本说明书的内容如有变更, 恕不另行通知。若内容与您使用的功能有所不同, 则以实物为准。如有疑问, 欢迎向我司授权的经销商咨询。

保修条例

- 自出厂之日起保修服务期为2年。
- 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。

非保修条例:

属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
 - 过高电压、超负载、操作不当等人为造成的损坏;
 - 产品外形严重损坏或变形;
 - 自然灾害以及人力不可抗拒原因造成的损坏;
 - 产品保修标签和产品唯一条形码损坏;
 - 无雷特签订的合同或发票凭证。
1. 修理或更换是雷特对客户的最唯一补救措施。雷特不承担任何附带引起的损害赔偿
责任, 除非在适用法律范围之内。
 2. 雷特享有修正或调整本保修条款的权利, 并以书面形式发布为准。

模块支持空调品牌及型号表

大金:

系列	型号	注意事项
VRV X7	RXYQ**BA; RUXYQ**BA; RUXY**BAN	接线说明: 1、接单套制冷系统: 模块侧接F1F2端子, 空调侧接在室内机“F1\F2”的接线端子上, 或者室外机的“内\外”“F1\F2”接线端子上(无极性区分)。 2、接多套制冷系统: 模块侧接F1F2端子, 空调侧接在室外机的“外\外”的“F1\F2”接线端子上。室外机与室外机连接时也需要“外\外”的“F1\F2”端子(无极性区分)。
VRV Q 系列 (更新机)	RHXYQ**QY1 (QAY1); RWXYQ**AAV	
VRV 水源热泵系列	RHXYQ**QY2; RXWYQ**AAV; RXWXYQ**AY1C; XWEYQ**AY1C	
VRV 二级压缩系列	RHSYQ**PY1; RHSQ**PY1; RHSQ**PY1+BHSQ20PY1	
SKyAir Multi 系列	RSQ**BAV(ABY, BBY, BAY, CAY)	
	RDQ**BAV(ABV; ADV;ABY;BBY)	
VRV 住宅用 U 系列	RBZQ**AAV(AAY);	
VRV 住宅用 P 系列	RYZQ**AAV (P); RPZQ**AAV(AAY, BAY, BAV, ABY); RPQ**ABY; RJLQ**AAV	
VRV 住宅用 S 系列	RYZQ**AAV; RJZQ**AAV(AAY, BAV, ABY, BAY, AAVY); RMXS**EY1C; RJQ**ABV	
VRV 住宅用 B 系列	RJFQ**AAV; RJCQ**AAV	
VRV 住宅用 N 系列	RQZQ**AAVN (AAYN, ABYN, BAYN, BAVN); RYZQ**AAVN; RQP**BV2C; RQQ**ABYN; RJLQ**AAV;RQCZQ**BAYN(ABYN);	
超级 VRV-II	RUXYQ(XXX)P	
大金自由冷暖	RHXYQ**RSY1;RUCXYQ**K;RHCXYQ**AA;RHCXYQ**AAE;RHCXYQ**AAH;RHCXYQ**AAN;RUCXYQ**AA;RBCZQ**BAY	
VRV III系列	RHXYQ**SY1;RHXYQ**PY1;RCXYQ**PAY1(E/H); RHXYQ**PAY1(E/H)	
VRV D 系列	RHXYQ**BA;RHXYQ**AB	
VRV X 系列	RUXYQ**AB (BA) (N); RUCXYQ**BA	
VRV A 系列	RHXYQ**BAE (ABE)	
VRV C 系列	RHXYQ**ABN (BAN)	
VRV Σ 系列	RHXYQ**BAH (ABH)	
VRV CMS	RZP**SY1 (P); RHXY**SY1; RZP250MAY1;RZP**PAY1	
家用 VRV-PRO	RHX**SY1P	
寒冷地 H 系列	RTSXYQ**BA	
金制 VRV 住宅用 P 系列	RYCZQ**AAVP(AAVN); RPCZQ**AAV(BAV, AAY, BAY, ABY); RYCQZQ**AAVN;	
金制 VRV 住宅用 U 系列	RBCZQ**AAV(AAY)	

金制 VRV 住宅用 N 系列	RYCZQ**AAVN; RQCZQ**AAVN(BAVN, AAYN, BAYN, ABYN); RYZQ**AAVN	
LMX 系列	LMXS**ABV (BAV, ABY, DNV2C, DNY1C)	
大金一代空调	RSXY**KY1C;	
进口机型	RXYQ20TY1(E)56/63KW; RXYQ**PY1C	
	RJQ***ABY; RXMQ***AVE; RXYSQ***AVE RXSQ***AVE; RUXYQ***BAN; RTSCXYQ***BA RUXYQ***AB; RHCXYQ***RSY1; RHXY***SY1N RWXYQ***BY1C; RSHYQ***BY1C; RWXYQ***BY1 RWXYQ***CY1C; RWXYQ***CY1; RWEYQ***CY1C RWEYQ***CY1; RXXYQ***QY1; RXS***AB; RSXY***AB; RCXYQ***AB; RXYQ***QY1; REY***QY1; RSEY***QY1; REYQ***QY1; RSYQ***QY1; RNY***QY1; RXY***QY1; RHY***QY1; RSXY***PY1C; RHXYQ***ABN; RHXYQ***BAH; RZP***EY1CP; RZQ***MUYLK; RQ***MUYLK; RNDQ***MUYLK; RNCQ***MUYLK; RNCOH***MUYLK; RNBQ***MUYLK; RNVQ***MUYLK; RYCP***MUYLK; RZCP***MUYLK; RN***MUYLK; RDXAS***MUYLK; RQCZQ***CAYN; RQ***ABVN; RYCZQ***BAVP; RPCZQ***CAV; RPCZQ***BAY; RYZQ***BAVP; RPZQ***CAV; RPZQ***BAY; RPZQ***CAY; RY***KMY1L; RZY***KMY1L; RXD***KMY1L; RZQH***KMY1L; RXQ***KMY1L; RJZQ***CAV; RJZQ***CAY; RBCZQ***BAV; RBCZQ***BAY; RBZQ***BAV; NRJ***BAV; NRJA***BAV NRZQA***BAV; BRZQB***BAV; NRZQB***Y1; NRZQBN***Y1; RBZQ***BAYRJFQ***BAV; RJEQ***AAV; RJCFQ***BAV; RQCZQ11CAYN; RGQ***BAV; BHSQ***PY1; BRZQB***BAV; 3MXSxxEV2C; 4MXSxxEV2C; LMXS***ABV; LMXS***ABY; LMXS***BAV; NRJ***BAV; NRJA***BAV; NRZQA***BAV; NRZQB***Y1, NRZQBN***Y1; N3M***Y1; N3MN***Y1; NHMN***Y1; SPSM***BAY; SPSM***BBY; SPSM***CAY; RQCZQ8CAVN; RHXY**MY1	

日立：

系列	室外机型号	注意事项
6Q 模块机系列	RAS-**FSN6Q	1、模块侧接“F1F2”端子，空调侧接“1、2”端子。 2、接单套制冷系统：空调地址自动分配，无需设地址，空调的地址可以通过模块的 web 页面进行查看 3、接多套制冷系统时，所有空调的内外机都需要通过电路板拨码设定地址。（具体拨码方式可以咨询我司技术人员）。 4、如果遇到空调不受控，但是空调有反馈信息的问题，最大可能是日立的线控器是假的，换真的线控器就可以了。 5、日立的空调地址我们为了和其他品牌对应一致，将实际内机地址和外机地址都加 1，加 1 后的地址就是模块 web 页面显示的地址。对空调进行控制时要以 web 页面地址为准。 6、日立空调如果接好模块搜不到空调，基本上都是线路问题。多套系统时有可能是地址设定有问题。 注： 对空调进行拨码时必须保证所有内外机都断电，否则拨码不生效。
D 系列	RAS-**FSDNQ	
SPRO(3)系列	RAS-**FSDNY1Q; RAS-**FSDNY2Q	
SET FREE 侧出风	RAS-**FSNMQ	
热回收模块机	RAS-**FSXNQ	
寒冷地	RAS-**FSCNY1Q	
SET FREE MINI	RAS-**FSVN1Q; RAS-**FSYN1Q	
CAM	RAS-**FSNY9Q	
CAM II	RAS-**FSNY9AQ	
VAM 系列	RAS-**FSYN2QB; RAS-**FSVN3Q; RAS-**FSVN2Q; RAS-**FSYN2Q	
VAM mini	RAS-**FSVN5Q	6、日立空调如果接好模块搜不到空调，基本上都是线路问题。多套系统时有可能是地址设定有问题。 注： 对空调进行拨码时必须保证所有内外机都断电，否则拨码不生效。
VAM 别墅机(II)	RAS-**FSYN2QA; RAS-**FSYN2QB	
IVX MINI 系列	RAS-80HRNM1QA; RAS-**HRNM1Q; RAS-125HYNM1Q	
多功能系列	RAS-***FSPNYQ	
ES	RAS-**HRNM2Q	
EX	RAS-**HRN3Q	
EX-PRO 系列	RAS-**HRN5Q; RAS-**HRN5QA; RAS-**HRN5QB	
至尊系列	RAS-**FSLN1Q; RAS-**FSLNQ; RAS-**FSLNQG; RAS-**FSLYNQ; RAS-**FSLYNQA; RAS-**FSLN3Q; RAS-**FSLN2Q; RAS-**FSLNQE; RAS-**FSLYN1Q	
节能先锋	RAS-**FSN1Q	
renewal 更新机	RAS-**DSR2Q	
SF 智享系列	RAS-**FSHNQ; RAS-**FSHYNQ	6、日立空调如果接好模块搜不到空调，基本上都是线路问题。多套系统时有可能是地址设定有问题。 注： 对空调进行拨码时必须保证所有内外机都断电，否则拨码不生效。
新 N	RAS-**HN8Q; RAS-**HNY8Q	
U+强热	RAS-**HEQ; RAS-**HYEQ	
US	RAS-**HN7Q; RAS-**HNY7Q	
	RAS-***FSXPN2Q; RAS-***FSLPN2Q; RAS-***FSNY5Q; RAS-***FSLNY2Q; RAS-***FSDENY3Q; DLR-**W/BPA RAS-***FSNYAQ ; RAS-335FSPNYZQA*2 ; RAS-125HNYAQ; DLR-160W/BPA; RAS-***FSPUNQ; RAS-***FSDNY3Q; RAS-***FSVNAQ; RAS-***FSNYAQ; RAS-***FNY3Q; RAS-***DVRNQ; RAS-***DVRNYQ; RAS-***FSYN3Q; RAS-***FSVN6Q; RAS-***FSYN2QA; RAS-***HRNM1QA; RAS-***HYNM1Q; RAS-***HRNY2Q; RAS-***HRN3Q; RAS-***HRN5Q; RAS-***HRN5QA; RAS-***HRN5QB; RAS-***HRN5QC; RAS-***FSNY9CQ RAS-***FSLN5Q; RAS-***FSLNY5QA; RAS-***FSLNQB;	
	RAS-***FSPNZ1Q; RAS-***FSPNYZQ; RAS-***FSPNZQ; RAS-***FSNYW1Q; RAS-***HRNMQ; RAS-***FSPNYZ2Q; RAM-***FSQD; RAM-GH***N5HAPC; RAC-F***MVX; RAC-***MVX; RAS-***FEWN1Q/M; RAS-***FSPNZQ; RAS-***FS3Q;	

东芝:

系列	室外机型号	注意事项
Super MMS-e 系列	MMY-MHP**HT8-C1/C2/C1F(中国产); MMY-MAP**HT8-C (日本产); MMY-MAP**HT8P-C(泰国产)	1、接单套制冷系统:模块侧接F1F2端子,空调侧接在室内机或者室外机的“U1U2”的接线端子上(无极性区分)。东芝空调需通过每台内机的面板来设定集控地址。
Super MMS-C 系列	MMY-MH**HC8-C/C1; (泰国产) MMY-MH**HC8-C1;(泰国产)	2、接多套制冷系统:模块侧接F1F2端子,空调侧接在室外机的“U3U4”接线端子上。
Super MMS-i 系列	MMY-MHP**HT8-C1; MMY-MHP**HT8-C2; MCY-MAP**HT8-C (进口); MMY-MAP**HT8-C (进口); MMY-MAP**HT8-C1F;	室外机与室外机连接时 also 需接“U3U4”端子(无极性区分)。外机需要通过电路板拨码设定系统地址,每台室内机的面板上需要设定三个地址:外机地址、内机地址和集控地址。(具体设置方法咨询我司相关人员)。
MINi SMMS 系列	MCY-MHP**HT-C/CF; (中国产) MCY-MHP**HT8-C1/C2/C/CF; (中国产) MCY-MAP**HT-C/CF(中国产); MCY-MAP**HT8-C(日本产); MCY-MAP**HT8-C1(日本产); MCY-MHP**HT8-C1/C1F(日本产); MCY-MHP**HT8-C1F/C2F	注意: 1、“U3U4”端子出厂默认是不起效的,“U1U2”和“U3U4”之间有个插接线,必须插在一起才能使“U3U4”端子起效。 2、对空调外机进行拨码时必须保证所有内外机都断电,否则拨码不生效。
SMMS-i 系列	MMY-HP**HT8-C1; MMY-AP**HT8-C; MMY-HP**HT8-C1F;	
侧出风 BIG DI	RAV-SMS**AT8-C	
泰国进口机型	RAS-5M34S3AV4C	
MMS-R	MMY-MHP**HR8-C	
	MMY-MAP**HT8; MMY-MUP****HT8-C; MMY-MAP****P-C MMY-MH***C/C1 MCY-MHP***C/CF MCY-MHP***HT8-CF MCY-MHP***HT8-C2 MCY-MHP***HT8-C MCY-MAP***HT-C	

	MCY-MAP***C/CF MCY-MHP***C1F MCY-MHP***C2F MMY-MUP***HT8Y-Cx MMY-AP***HT8(P)-C MMY-HP***HT8-C/C2 MMY-UP***HT8-C	
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三菱电机：

系列	室外机型号	注意事项
变频	MXZ-8C200VAM1-C; MXZ-8C200VAMZ-C; MXZ-8C200VAMZ1-C; MXZ-8C200VAM-C; MXZ-8C120VAM-CN1;MXZ-8C140VAM-CN1;MXZ-8C160VAM-CN1;	1、接单套制冷系统：模块侧接F1F2端子，空调侧接在室内机或者室外机的内外机通讯的“M1/M2”的接线端子上（无极性区分）。地址自动分配，无需设定地址。 注： 变频系列只能接外机，内机没有接线端口。 2、接多套制冷系统时：外机通过TB7的“M1/M2”端子
变频系列	PUMY-P**VHMC-S; PUMY-P**VHMC-C; PUMY-P**YKMC-C; PUHY-P**YRKC-A(B); PUHY-P**YRJC-A; PUHY-P**YPKC-A PUHY-P(***VHMC-S(YHMC-C、YKMC-C);PUMY-P**YKM1-CN	
City-Multi 冰焰	PUHY-HP**VHMC(YSHMC)-B; MXZ-8C**VAMZ-C; MXZ-8C**VAMZ1-C;	
City-Multi 系列	PUHY-P**YKC(YRKC、YSKC、YSLKC、YSPKC、YSEKC、YLKC、YDKC、YEKC、YJC、YMKC) -A; PUMY-SP**YKMC-SD	
	PUMY-SP**VHMC-SD; PUMY-SP**VHMC-SR	
热回收系列	PURY-P**YJMC-A	
商用	PUHY-P(***YHC-A	
R2 热回收系列	PURY-P200YJMC-A;	
R3 热回收系列	PURY-P250YJMC-A;	
R4 热回收系列	PURY-P300YJMC-A;	
R5 热回收系列	PURY-P350YJMC-A;	
R6 热回收系列	PURY-P400YJMC-A;	
	PUHY-EHP**VHMC-A; PUMY-SP**VHMC-SD; PUMY-SP**VHMC-SR MXZ-8C***VAM1-C MXZ-12C***YAM-CN1 MXZ-8C***VAM-CN1	串联，接到模块的“F1F2”端子。所有空调的内外机都需要通过电路板拨码设定地址。（具体接线拨码方式可以咨询我司相关人员）。 3、看到P开头的多联机都是可以控制的。

	MXZ-4C***VA-B1 MXZ-5B***VA-B1 MXZ-6A***VA-S MXZ-7A***VA-S MXZ-8A***VA-S PUHY-P***YPKC-A PUHY-P***YLKC-A PUHY-P***EKC-A PUHY-P***YHC-A PUHY-P***YSHC-A PURY-P***YJMC-A PUHY-P***YHMC-B PUMY-P***YBM-CN	
	PUHY-P***YNC-A	

三菱重工：

系列	室外机型号	注意事项
KX6-Q 系列	FDC***KXE6Q (-K) ; FDC***KXE6Q (J)	1、模块侧接“XY”端子，空调侧接“AIB”端子。无极性区分。 2、模块接单套系统时地址是自动分配的，无需设定地址；如果模块接多套系统时，所有内外机都需要通过电路板拨码设定地址。（具体方式请咨询我司相关人员）
KXZ 系列	FDC***KXZE1G; FDC***KXZE1GQ	
KXZ mini 系列	FDC***KXZPE1GQ; FDC***KXZPEGQ; FDC***KXZPE1NJ	
KX6-I 系列	FDC***KXEN6J/6G/6Q	
KX4 系列	RFC***KX4	
KX6 MINI	FDC***KXEN6 (J)	
KX6	FDC***KXEN6G ; FDC***KXEN6(J) ; FDC***KXE6(-K); FDC***KXE6G; FDCH***KXE6(-K)	
SCM 系列	每台内机需要空调方提供一个 SC-BIKN-E 和一个 SC-ADNA-E，然后把每台内机的 SC-ADNA-E 串起来接网关	
SCM 多管制	SCM8OZJC-S; SCMA**I;	
	FDC***KXEN6J	
	FDC***KXE6J	
	FDC***KXE6Q-K	
	FDC***KXE6Q	
	FDC***KXE6-K	
	FDC***KXE6	
	FDCH***KXE6-K	
	FDCH***KXE6	
	FDCH***KCE6J	
	FDCH***KCE6G	
	FDCH***KCE6Q	
	FDC***KXPEGQ	
	FDC***KXZLE1GQ	
	FDC***KXZWE1NQ	

	FDC***KXDE1GQ FDC***KX6FQ FDC***KXZPE1GJ FDC***KXZEN6 FDCA***615HKXE4D
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格力：

系列	室外机型号	注意事项
GMV 5S 系列	GMV-***WM/B	1、格力接单套制冷系统，模块侧接 HL 端子，空调侧接外机的“G1/G2”端子或者内机的“D1/D2”端子。单套系统无需设置地址。 2、格力接多套制冷系统：模块侧接 HL 端子，空调通过外机的“G1/G2”端子串联，接到模块。外机需拨地址码，内机需从面板上设定地址。（具体拨码方式请咨询我司相关人员） 3、格力部分不支持串联，只能一套系统接一个模块。 4、四代机接模块“XY”端子。 注： 格力接线有极性，如果搜不到可以倒换一下线序。
GMV ES 系列	GMV-***WL/B; GMV-***WL/BS; GMV-***W/B; GMV-***W/A	
GMV 5 系列	GMV-***WM/A	
GMV STAR 系列	GMV-H***WL/A; GMV-H***WL/D; GMV-H***WL/AS; GMV-H***WL/A2; GMV-***WL/L	
GMV TOP 系列	GMV-H***WL/B; GMV-H***W/B; GMV-H***W/A	
GMV 舒睿	GMV-HZ***WL/A	
格力家用严寒地 铂韵系列	GMV-H***WL/B1	
GMV UP（智睿）	GMV-H***WL/C	
雅居系列（无 G1/G2 端子，接 D1/D2）	GMV-H***WL/F; GMV-H***WL/Fd	
六代机	GMV-***WM/X	
GMV Unic 多能一 体	GMV-HS***WL/A; GMV-HS***W/A	
	GMV-H***WL/H1; GMV-H***WL/H2; GMV-H***WL/P	
四代机	GMV-Pd600W/NaB-N1	
	GMV-H***WL/BS GMV-H***WL/L GMV-H***W/A1 GMV-H***WL/H2S GMV-HS***WL/H1 GMV-HS***WL/P GMV-***WM/X GMV-***W/A1 GMV-***WL/C1 GMV-HS***WL/Fd GMV-H***WL/H GMV-***W/J GMV-Pd***w/NaB-N1 GMV-Pd***W/NaFC-N1 GMV-Pd***W/NaC-N1 GMV-R***W3/Na-N1 GMV-Pdm***W/Nab-N1 GMV-***WM/A2 GMV-***WL/FD	

美的：

系列	室外机型号	注意事项
MDV S 系列	MDV-**(*)W/D2SN1-8V1; MDV-**(*)W/D2SN1-8X1; MDV-**(*)W/D2SN1-8U1; MDV-**(*)W/D2SN1-8U1; MDV-**(*)W/D2SN1-8U1; MDV-**(*)W/D2SN1-8V1;	1、模块侧接“X/Y”端子，空调侧接内外机通讯的“P/Q”端子。有极性区分，如果搜不到，倒换一下线序即可。 2、美的部分机型可以串联接一个模块，具体方法请咨询我司相关人员。
MDV X 系列	MDV-**(*)W/D2SN1-8U0 (G) ; MDV-**(*)W/D2SN1-8V0 (G) ; MDV-**(*)W/D2SN1-8U0 : MDV-**(*)W/D2SN1-8V0 : MDV-**(*)W/DSN1-8U0 : MDV-**(*)W/DSN1-8V0 : MDV-**(*)W/DSN1-9U0 : MDV-**(*)W/DSN1-9V0 : MDV-**(*)W/D2SN1-9V0; MDV-**(*)W/DSN1-8V0(S); MDV-**(*)W/DSN1-9V0(S)	
MDV 4 (4-25) + 系列	MDV-**(*)W/DSN1-*** (G); MDV-**(*)W/DSN1-*** (G); MDV-**(*)W/D1SN1T-890 (G)	
D4+数码涡旋	MDV-D-**(*)W/SN1-***	
TR+系列	MDVH-V***W/N1-615TR(E1/F1) ; MDVH-V***W/N1-TR(F) ; MDS-H***W(E1); MDS-H***W(S(E1)	
侧出风变频多联机	MDV-**(*)W/DSN1-8R0 (8T0/8T1)	
TR 系列	MDVH-V80W/N1-311TR(E1); MDVH-V100W/N1-521TR(E1); MDVH-V***W/N1-612TR(E1); MDVH-V***W/SN1-612TR(E1); MDVH-V***W/SN1-8R0TR(E1)	
TR+mini	MDVH-V***W/N1-5R0(E1)	
TR+S 系列	MDVH-V***W/N1-615TR(E1) ; MDVH-V***W/N1-TR(F)	
尊享家	MDVH-V***W/N1-*** (E1); MDVH-V***W/SN1-*** (E1)	
尊享家 i	MDVH-V***W/N1-*** (E1);	
乐享家	MDVH-V (XXX)W/N1- (XXX)P(E1)	
畅享家	MDVH-V***W/T2N1-*** (E1)	
直流变频侧出风	MDV-D-***T1/XFSYN1(A)	
酷风系列	MJZ-80W/BP3N1-311CC(1); MJZ-***W/BP3N1-5R0CC(1); MJZ-***W/BP3N1-615CC(1); MJZ-***W/BP3N1-E01CF(1);	需检查外机接线 AB 还是 XY，理想家、玲珑系列也需检查。
	MDVH-V***W/N1-LL(E1)II MDVH-V***W/N1-LL(E1)II MDVH-V***W/N1-LL(E1)II MDVH-V***W/N1-E01LX(E1)II MDVH-V***W/N1-E01LX(E1)II MDVH-V***W/N1-E01LX(E1)II MDVH-V***W/N1-DGC(E1) MDV-***W/D1SNIT-890(G)II MDV-***W/D1SNIT-890(G)II MDV-***W/D1SNIT-890(G) MDV-***W/D2SN1-8U1 MDV-***W/D2SN1-8V1	

	MDV-***W/D2SN1-8V1 MDV-***W/D2SN1-8X1 MDV-***W/D2SN1-8U0(G) MDV-***W/D2SN1-8V0(G) MDV-***W/DSN1-9U0 MDV-***W/DSN1-890(G) MDV-***W/DSN1-880(G) MDV-***W/DSN1-891(G) MDV-***W/DSN1-990(G) MDV-***W/DSN1-920(G) MDV-***W/DSN1-940(G) MDV-***W/DSN1-980(G) MDV-***W/SN1-890 MDV-***W/SN1-880 MDV-***W/N1-5R1 MDV-***W/D2SN1-8V1 MDV-***W/D2SN1T-890(G) MDVH-V***W/N1-311(E1) MDVH-V***W/N1-521(E1) MDVH-V***W/N1-610(E1) MDVH-V***W/N1-611(E1) MDVH-V***W/SN1-610(E1) MDVH-V***W/SN1-611(E1) MDVH-V***W/SN1-8R0(E1) MDVH-V***W/N1-310(E1) MDVH-V***W/N1-520(E1) MDVH-V***W/N1-610(E1) MDVH-V***W/N1-611(E1) MDVH-V***W/N1-613(E1) MDVH-V***W/T2N1-210(E1) MDVH-V***W/T3N1-310(E1) MDVH-V***W/T4N1-310(E1) MDVH-V***W/N1-311TR(E1) MDVH-V***W/N1-521TR(E1) MDVH-V***W/N1-615TR(F) MDVH-V***W/N1-310P(E1) MDVH-V***W/N1-520P(E1) MDVH-V***W/N1-610P(E1) MDVH-V***W/N1-611P(E1) MDVH-V***W/N1-TR(F1) MDVH-V***W/N1-5R1(E1) MDS-H***W(E1)II MDS-H***W(E1)II MJZ-***W/BP3N1-E01CF4	
	MJZ-***W/BP3N1-311CC(1) MJZ-***W/SN1-CF(1) MJZ-***W/BP3N1-E01CF3(1)	

海尔：

系列	室外机型号	注意事项
SA 系列	RFC**MXSKYA; RFC**MXSKYN; RFC**MXKYA	1、模块侧接“F1\F2”端子， 空调侧接“P\Q”端子，无极性区分。 2、海尔空调不支持多外机串联，只能一套系统接一个模块。
MX4	RFC**MX4 (-A)	
MX7 (MX6) 全直流变频系列	RFC**MX7 (-V) ; RFC**MX6;	
MX8 全直流变频系列	RFC**MXMLYA; RFC**MXMLYR;	
MXS 系列	RFC**MXS (智悦) ; RFC**MXS-T; RFC**MXS-A ; RFC**MXS-V	
侧出风系列	RFC**MXSAVA(G)	
云尊系列	RFC**MXSDVA (G) ; RFC**MXSDYA	
智尊系列	RFC**MXSAVA ; RFC**MXSAYA ; RFC**MXSAYH ; RFC**MXSAVB;	
智尊+系列	RFC**MXSCVA; RFC**MXSCYA	
智尊 s 系列	RFC**MXSAVC(G); RFC**MXSCVC(G) ; RFC**MXSAYC(P); RFC**CX7; RFC**M-A; RFC**M-B	
变容量 MX	RFC**MXS(-V)	
家庭中央空调 KVR	KVR-**W/D522B	
	KVR-***W/D522B KVR-***W/D532B RFC**MXMLYB RFC**MX7 RFC**MX RFC**MXSAVA RFC**MXMLMR RFC**MX4 RFC**MX4-T RFC**MX4-D RFC**CX5JVB RFC**MXSAVC(F) RFC**STSJVA RFC**MXSAVD(G)	

约克水机：

系列	室外机型号	注意事项
广州约克水机做智能之前一定要跟户主核对空调内外机是否有 485 联动功能，开内机外机会自动运转（不能人为的开外机），就表示内外机有 485 联动，如果没有 485 通讯线将无法做智能。 模块升级空调选广州约克-水机，模块接内外机皆可，空调是接温控器的 A B 端子，模块接 XY。外机的端子不固定，接哪个端子看内机温控器是接外机的哪个端子。		
	YVAG**HSExx YVAG**RSExx YVAT**RSExx YVAF**RSExx YVAG**RMExx	1、面板需要使用 T8600 或 T8610 其中一款； 2、保证空调内外机有联动； (同时满足以上两点才能控)

约克多联机：

系列	室外机型号	注意事项
YES-super+	YVOH**VPEMBQ; YVOH**VAEMBQ;	1、同日立，可参考日立。 2、青岛产约克多联机都支持。
YES-edge+	YTOH**VPEMBQ; YTOH**VAEMBQ; YVOH**VPPE; YVOH**VVEE; YEOH***PEMBQH YDDN022/28H0NAGQH YM0M120/100HSEEAQ	
YES-Eco	YEOH**HSEM; YEOH**VSEE	
家用 YES-mini	YROH**HSEK; YVOH**KH-QA; YVOH**HSEK	
YES-slim/+	YDOH**HSEKBQ; YDOH**HSEMBQ; YVOH**HSEM	
YES-smart/+	YKOH**HSEKBQ; YKOC**HSEK	
YES-power/+	YCOH**HSEKBQ; YCOH**HSEK	
YES-comfort/+	YROH**HSEKBQ; YROH**HSEMBQ; YROH**HSEK	
	YEOH**HSEM; YXOH**HSEM; YCOH**HSEM	
YES-free 多管机	YFOH**H3EAAQ; YFOH**H4EAAQ	约克多管机目前控不了
YES-multi 多管机	YPOH**H3EAAQ; YPOH**H4EAAQ	
	YROH**HSEKBQ1 YCOH***HSEMBQ YKOH***HSEKBQ1 YFOH**HXEAAQ YMW***NPPEAQ YMW***NAEEAQ YQOH***VPEMBQ YQOH***VAEMBQ YEOH***VPEMBQH YEOH***VAEMBQH YDOH***EVF-0B YKOH***HSEM(BQ) YMOM***HSEAAQ YMOM***HSEEAQ YDH***R2NAAQ YUOM***HSEAAQ YUOM***HSEABQ YVOH***HVEE YDOH***EVV-0B YROH***HSEEAQ	

海信：

系列	室外机型号	注意事项
Hi-Multi G 系列	HVR-**W/SG1FZBp	同日立，可参考日立。
G2 系列	HVR-**W/SG2FZBp	
Hi-Multi X 系列	HVR-**W/SC2FZBp	
C 系列	HVR-**W/SC1FZBp	
Hi-Multi M 系列	HVR-**W/SM1FZBp	
M2 系列	HVR-**W/SM2FZBp	
Hi-Smart H 系列	HVR-**W/H1FZBp; HVR-**W/H1FZBp1; HVR-**W/SH1FZBp; HVR-**W/SH1FZBp	
荣耀家系列	HVR-**W/E2FZBp; HVR-**W/L2FZBp; HVR-**W	
E 系列	HVR-**W/E1FZBp	
Hi-Smart L 系列	HVR-**W/L1FZBp	
Hi-Smart E 系列	HVR-**W/E1FZBp	
别墅家系列	HVR-**W/SK1FZBp	
Hi-Multi C 系列	HVR-**W/SC1FZBp	
	HVR-**W/H2FZBp; HVR-**W/SH2FZBp HVR-***W/SM2FZBpi HVR-***W/SC2FZBp HVR-***W/H3FZBp HVR-***W/E3FZBp HVR-***W/SL2FZBp HVR-***W/E2FZBp/T HVR-***W/L2FZBp/T HVR-***W/L3FZBp/T HVR-***W/SL2FZBp/T HVR-***W/A1FZBp HVR-***W/H2FZBp/T; HVR-***Q/G1FZBp	

LG：

系列	室外机型号	注意事项
MULTI V 5	ARUN**LTE5;	1、室外机“CEN,A、CEN,B”端子与模块的“X、Y”端子相连（需要区分极性）。如果找不到空调把线倒一下再搜索空调试一下。 2、LG 不支持多套系统串联，只能一套制冷系统接一个模块。
MULTI V IV	ARU**WT4;	
MULTI V IV 全直流变频	ARU**ST4; ARU**WT4;	
MULTI V IV PRO 全直流变频	ARU**LT4;	
商用 Multi V 5 Pro 系列	ARU**LT4;	
MVS IV	ARU**MT4;	
变频 MULTI 系列	AMU**N3F; AMU**N4F; AMU**N5F	
MVS II	ARU**WT4;	
MULTI V S 智能户式多联机	ARU**WS; ARU**WS4; ARUN**LSS0;	
家用 Multi V 系列	ARU**MT4;	
	ARU***5DS	

松下:

系列	室外机型号	注意事项
FSV EV	CU-ME**B1YD6;	1、室外机“U1/U2”端子与模块的“F1/F2”端子相连（无极性区分）。 2、松下不支持多套系统串联，只能一套制冷系统接一个模块。
MASTER GMAX	CU-ME**B1YX6; CU-ME**B1YX6N	
6N1	CU-ME**B1YD5	
MASTER III	CU-ME**B01; CU-ME**B1Y02; CU-ME**BX3; CU-ME**BYX3; CU-ME**BYX6	
MASTER mini	CU-ME**B03	
MASTER GAMX	CU-ME**BYX3	
	DLR-**W/BPB02; DLR02;DLR-**W/BPB03; DLR-**W/BPX3; DLR-**W/BPYX3; U-10LE1H7; CU-ME**BL1; CU-ME**B08; CU-ME**BD3A; CU-ME**BD5;CU-ME**B1YD6N CU-ME***B1YS6N CU-ME***BS6N CU-ME***BX6 CU-ME***BX5 CU-ME**B08w CU-ME***BD3 CU-ME***BYS6 CU-ME***BS6 CU-ME***BYS3 CU-ME***B1YS6N CU-ME***S6	

三菱重工海尔:

系列	室外机型号	注意事项
VX6 商用	RFC**VX6; RFC**VX6-K; RFC**VX6-R	1、模块侧接“XY”端子，空调侧接“A/B”端子。无极性区分。 2、三菱重工海尔部分机型不支持多系统串联，只能一套系统接一个模块。
KX6 商用	RFC**KX6; RFC**KX6-1-K; RFC**KX6-1; RFC**KX6-K	
KX4 商用	RFC**KX4; RFC**KX4-K	
TX 智能楼宇	RFC**TX-K（如果线控器是三芯的需要拆掉原厂线控，如果是两芯的：双向的可以控，单向的控不了；120和双向的86型线控器可以控，单向的86型线控器不能控）	
VX6 MINI 家用中央空调	RFC**VX6	
VX5 家用中央空调	RFC**VX5	
VX6 家用中央空调	RFC180VX5	
VX7 家用中央空调	RFC255VX5	
VX8 家用中央空调	RFC280VX5	
TX/JX 家用中央空调	RFC**JX; RFC**TX; RFC**TX-T; RFC**JX-H; RFC**TX-H; （如果线控器是三芯的需要拆掉原厂线控，如果是两芯的：双向的可以控，单向的控不了；120和双向的86型线控器可以控，单向的86型线控器不能控）	
	RFC***X5 RFC***X RFC***TX-N	

三星：

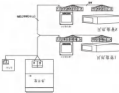
系列	室外机型号	注意事项
NASA 系列	AM***FXVAGH/SC; AM***FXVSGH/SC; AM***FXVRGH/SC; AM***XM***/SC; AM***SM***/SC; AM***FXVRGH5	1、室外机通讯“F1/F2”端子与模块的“XY”端子相连（需要区分极性）。如果找不到空调把线倒一下再搜索空调试一下。 注： 不能接集控端子，会报故障。 2、三星不支持多套系统串联，只能一套制冷系统接一个模块。
SUPER DVM S	AM**KXVAGH; AM**KXVRGH; AM**KXVGGH;	
DVM S	ADX**VSGHA; ADX**VAGHA; ADX**VRGHA	
DVM S Shooter	AM**JXVDGH	
SUPER FJM	RVXJHF**EA	
DVM S ECO	AM**JXMKEH; AM**FXMDGH; AM**KXMDGH; AM**JXMDEH	
星光-MLL 系列	AM030HCMDEH/SE; AM**HCMDEH/SE; ADX**MDGHA	
FJM mini	AJ**JCJ4EH5	
CAC	ACN**DEHA/ACX**ADEHA; ACN**DGEA/ACX**DGEA;	
	AM**JXVAGH; AM**JXMKEH5; AM**KXMDGH	
	AM***FXVSGH	
	AM***FXVRGH	
	AD***xVSGHA	
	AD***xVAGHA	
	AD***xVRGHA	
	AM***HCMDEH/SC	
	AD***xMDGHA	
	ACN***4DEEA/SC	
	ACN***4DGEA/SC	
	AC***FBLSEE/SC	
	ACN***MDEEA/SC	
	DH***EZVA1C	
	AC***xDEEA/SC	
	AC***xDGEA/SC	
	AC***FCBSEE/SC	
	AC***xMDEEA/SC	
	ACN***DEHA/SC	
	ACN***DGHA/SC	
	ACN***LDEHA/SC	
	ACN***MDGHA/SC	
	AC***KN4DEH/SC	
	AC***MN1DEH/SC	
	AC***xADEHA/SC	
	AC***xADGHA/SC	
	AC***xLDEHA/SC	
	AC***xMDGHA/SC	
	AC***KXADEH/SC	
	AC***KXADGH/SC	
	AC***MX1DEH/SC	
	AM***KXWDEH/SC	
	AM***FXWAGR/SC	
	AM***JXMKEH5SC	
	AM***TXMDEH	
	AM***mxmdeh/sc	
	AM***JXMDEH5SC	

	AM***FXMDGH/SC AM***KXMDGH/SC AM***JXVDGH/SC AM***BXMDEH5	
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开利多联机：

系列	室外机型号	注意事项
	38VR**H**；38VR**H**S；	氟机同美的，可参考美的。
	38VR**H**K0；	
	38VF**H**；	
	38VR***H102010 38VR***H10201S 38VR***H11901S 38VR***H119010 38VR***H109010 38VR***H10205S 38VR***H10901S 38VR***H109013 38VR***H109011 38VR***H102050 38VF***H109015 38VR***H1090K0 38VF***H109010 38VF***H109011（56KW） 38VS***HGSC 38VP***H109020 GCHV-22F1C	

开利水机：

系列	室外机型号	注意事项
开利水机接线如下图所示，接空调外机跟内机温控器皆可（无极性，模块会自动跳转极性）。开利水机做智能之前一定要跟户主核对空调内外机是否有 485 联动功能，开内机外机会自动运转（不能人为的开外机），就表示内外机有 485 联动，没有的话不能做智能控制 图是内机的温控器，图中圈起来的的就是温控器的通讯口，所有温控器的通讯口会手拉手连到外机的 ab 端子。 模块升级开利水机程序，接 XY 端子，空调接内机或者外机的 AB 端子，接线没有极性。  		
	30RQV034H910BCARS; 30RQV***Hx 30RQV***Mx 30RQVE***P***BCARS	对接面板，ZHCS、空调、松下、海林 808、版本号 101。 河东+开利水机新协议。
	30RQVE***H***BCARS 30RQVF***M***ACARS	

奥克斯：

系列	室外机型号	注意事项
ARV X7 模块机	DLR-**W5/DCM-ARVX7; DLR-**W5/DCM3-ARVX7;	1、室外机“X1Y”端子与模块的“X1Y”端子相连(需要区分极性)。如果找不到空调把线倒一下再搜索空调试一下。 2、奥克斯不支持多套系统串联，只能一套制冷系统接一个模块。
ARV-X	DLR-**W5/DCM-ARVX; DLR-**W5/DCM3-ARVX	
ARV-5	DLR-**W5/DCM-ARV5;	
ARV-III 直流变频	DLR-**W5/DCM-ARV3;	
ARV-II	DLR-**W5/DCM-ARV2; DLR-**W5/DCM; DLR-**W/DCZ2; DLR-**W/DCZ6; DLR-**W5/DCM+; DLR-**W5/DCPM; DLR-**W/DCZ+; DLR-W5/DC; DLR-**W5/DCSM; DLR-**W/DCZ3; DLR-**W5/DCZ2; DLR-**W/DCZ7	
	DLR-***W5/DCM-ARVX7 DLR-***W5/DCM3-ARVX7 DLR-***W5/DCM-ARVX DLR-***W5/DCM3-ARVX DLR-***W5/DCM-ARV5 DLR-***W5/DCM-ARV3 DLR-***W5/DCM-ARV2 DLR-***W5/DCZ6 DLR-***W/DC06 DLR-***W5/DCSM-ARV3	

博世：

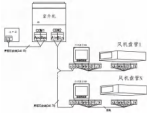
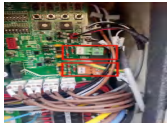
系列	室外机型号	注意事项
家用多联机	DCIM**-1C; DCIM**-3C;	同美的，可参考美的。
DCIV 系列	DCIV**/*-3C;	
DCIS 系列	DCIS**/*-3C;	
	DCIM***-1C DCIM***-3C DCIS***-3C DCIV***-3C	

麦克维尔多联机：

系列	室外机型号	注意事项
MDS-DR5 变频多联	MDS**DR5;	1、室外机“APC/BPC”端子与模块的“X1Y”端子相连(需要区分极性)。如果找不到空调把线倒一下再搜索空调试一下。 2、麦克维尔不支持多套系统串联，只能一套制冷系统接一个模块。
机		
carefree 直流变频多联式	MDS**ER5;	
ECO Super 系列直流变频多联式中央空调机组	MDS**E5-FV; MDS**ER5-FV;	
	MDS320BR5 MDS***DR5 MDS***ER5 MDS***ER5-AE MDS***ER5-FV MDS***ER5 MDS***E5-FV MDS***ER5-FV	

	MDS***BR5-FAA MDS***BR5 MDS***ER5 MDS***ER5-FVA MDS***BR5 MDS***FR5 mds-w120br5 MDS***FR5-FV	
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麦克维尔水机：

系列	室外机型号	注意事项
麦克维尔水机接线方式如下图所示：模块升级选麦克维尔水机，模块接 xy，空调只能接外机的 Apc Bpc 端子（无极性，模块会自己跳转极性），麦克维尔水机做智能之前一定要跟户主核对空调内外机是否有 485 联动功能，开内机外机会自动运转（不能人为的开外机），就表示内外机有 485 联动，没有的话不能做智能控制。   上图就是内机的温控器，图中圈起来的就是温控器的通讯口，所有的温控器都是手拉手连到外机的通讯口上。		
 Ain、Bin 是外机跟所有内机温控器的通讯口，联动的通讯口。Apc、Bpc 是空调跟模块的通讯口。		
	MACxxER5 MACxxDR5 MAC***DR5SQ	保证空调内外机有联动，满足这一点才能控制；

志高：

系列	室外机型号	注意事项
一些具体型号	志高多联机都可以 CMV-V***WSAM-C CMV-V***WA CMV-VD***WSAM-C CMV-VH335WSA GCHV-v***WA-B	1、室外机“P/Q”端子与模块的“X/Y”端子相连（需要区分极性）。如果找不到空调把线倒一下再搜索空调试一下。 2、志高不支持多套系统串联，只能一套制冷系统接一个模块。

威能：

系列	室外机型号	注意事项
	VAV 1-***NO	同美的，可参考美的。

特灵多联机：

系列	室外机型号	注意事项
GEN mini	多联机都可以	1、室外机“AIB”端子与模块的“XY”端子相连（需要区分极性）。 如果找不到空调把线倒一下再搜索空调试一下。 2、特灵不支持多套系统串联，只能一套制冷系统接一个模块。
GEN YUE X	多联机都可以	
GEN3+	多联机都可以	
	GEN mini GEN YUE X GEN3+ TMR***ADA TXM***AD	

特灵水机：

系列	室外机型号	注意事项
特灵水机要做智能话，一定要跟户主核对空调内外机要有 485 联动，开内机外机会自动运转（不能人为的开外机），就表示内外机有 485 联动。 没有的话不能做智能控制。如果户主做了 485 联动一定会加一个特灵的网络协议模块（这个模块是空调方安装的），网络协议模块如下图所示： 模块升级特灵水机程序，XY 端子接网络协议模块通讯接口 1 的 AB 端子，接线没有极性。		
	WPWE***SN3B CGHR***BNAR CGHR***DNAR	保证空调内外机有联动，满足这一点才能控制；

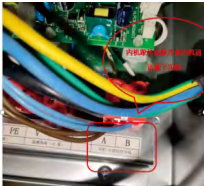
天加：

系列	室外机型号	注意事项
	天加多联机都可以	1、室外机“A3IB3”端子与模块的“XY”端子相连（需要区分极性）。 如果找不到空调把线倒一下再搜索空调试一下。 2、天加不支持多套系统串联，只能一套制冷系统接一个模块。
	TIMS***AHT TIMS***ASA	

富士通多联机：

系列	室外机型号	注意事项
	AJQ***LAHA	需要额外增加一个模块
	AJQ***LALH AJQ***LALBH AJQ***LALCH AJQ***LCLAH	

艾默生水机：

系列	室外机型号	注意事项
艾默生水机做智能之前一定要跟户主核对空调内外机是否有 485 联动功能，485 联动代表着内外机是有通讯线的，如果没有通讯线将无法做智能。模块接内外机皆可  内机是接内机主板的 A B 端子  外机是接外机的 A2 B2 端子 模块接 XY 端子，升级的时候选择艾默生水机。		
	XMSI-V09A-TXP-D01 XMUI-V12A-TXP-D01	艾默生水机需要核对空调内外机的 485 联动功能，有联动才能控制

TCL：

系列	室外机型号	注意事项
	TMV-VD***W/N1	

欧科：

系列	室外机型号	注意事项
全直流变频多联机	EKRV***ER1	只能接外机的 A1B1

注：列表中机型仅供参考，具体品牌型号请咨询我司技术人员。